

Development Servicing Plan 2016

Rouse Hill Recycled Water System

Table of contents

Executive Summary	3
Rouse Hill Recycled Water System Developer Charge	3
1 Development Servicing Plan methodology	4
1.1 Introduction	4
1.1.1 Developer charges and Development Servicing Plans	4
1.1.2 Regulation of developer charges.....	4
1.1.3 Payment of a recycled water developer charge	4
1.1.4 Dispute resolution.....	5
1.1.5 Disclaimer.....	5
1.2 Regulation - principles and calculation method	5
1.2.1 Principles of the regulation	5
1.2.2 The 2006 Determination	5
1.2.3 Review of DSPs and developer charges.....	6
1.2.4 Preparation of DSPs.....	7
1.3 Forecasting urban development rates	7
1.3.1 Existing development	7
1.3.2 Forecasting residential development.....	7
1.3.3 Forecasting non-residential development	7
1.4 Forecasting System Demand	7
1.4.1 Forecasting system demand	7
1.4.2 Defining an Equivalent Tenement	7
1.5 Determining relevant assets	8
1.5.1 Existing assets.....	8
1.5.2 Future assets	8
1.5.3 Standards of service.....	8
1.6 Asset valuation	9
1.6.1 Valuation of existing assets	9
1.6.2 Valuation of future assets	9
1.7 Operating result	9
1.7.1 Revenue	9
1.7.2 Operating and maintenance costs.....	9
1.8 Cost offsets (avoided costs)	10
2 Rouse Hill Recycled Water Scheme	11
2.1 Rouse Hill recycled water DSP	11
2.1.1 History of the Rouse Hill recycled water supply scheme	11
2.1.2 Boundaries	11
2.1.3 Recycled water infrastructure	12
2.2 Development rates and demand rates	13
2.3 Assets	17
2.3.1 Existing assets.....	17
2.3.2 Future assets	17

2.4 Plan of the network system.....	25
3 Developer charge calculation.....	26
3.1 Key assumptions and inputs	26
3.2 Developer charge	31
Appendix 1 – Commissioned Assets funded by Sydney Water	32

Figures

Figure 2-1 - Recycled water infrastructure (existing and proposed)	25
--	----

Tables

Table 2-1 - Development rates – Rouse Hill Recycled Water Scheme	13
Table 2-2 - Demand rates (average ET) – Rouse Hill Recycled Water Scheme	15
Table 2-3 - Planned future recycled water pipelines	18
Table 2-4 - Planned future recycled water pumping station and recycled water treatment plant works	22
Table 3-1 - Inputs to the developer charge calculation model	26
Table 3-2 - Annual capital expenditure and capital charge	27
Table 3-3 - Forecast revenue	29
Table 3-4 - Net operating result.....	30
Table 3-5 - Components of the developer charge.....	31
Table 3-6 - Schedule of developer charges	31

Executive Summary

Rouse Hill Recycled Water System Developer Charge

This Development Servicing Plan (DSP) is for Recycled Water Developer Services in the Rouse Hill Project Area. It has been prepared in accordance with the Independent Pricing and Regulatory Tribunal's (IPART) *Recycled Water Developer Charges, Determination No 8, 2006* (the 2006 Determination).

In previous DSPs Sydney Water levied non-residential developer charges based on the area of the development. In 2008, Sydney Water changed this approach to offer developers the option of having developer charges calculated on the basis of projected flows for non-residential development.

In this DSP, all non-residential development will be charged on a flows basis only. This approach will also be applied to multi-residential properties. A detached or semi-detached single residential dwelling will be charged as one Equivalent Tenement (ET) in line with the 2006 Determination.

Using the methodology in the 2006 Determination, the revised developer charge for the Rouse Hill Recycled Water system is **\$4,186** (\$2016-17) per ET. The below table summarises the revised charges.

Developer charges for different development types

Revised Developer Charge (\$ 2016-17)		
Development	Density	Charge \$/dwelling
Residential – Remainder of development (dwellings per pure net hectare*)	0 – 20	\$4,186
	21 – 35	\$3,182
	36 – 50	\$2,135
	51 – 65	\$1,758
	66 – 80	\$1,507
	81– 95	\$1,423
	96 – 125	\$1,256
	126 - 155	\$1,130
	> 155	\$921
Non-Residential	\$4,186 /ET based on assessed flows	

*Pure net area equates to developable area

The final charge will be subject to an annual adjustment in line with movements in the Consumer Price Index. The quantum of each adjustment is determined by IPART. The first adjustment will take effect from 1 July 2017.

1 Development Servicing Plan methodology

Part 1 of this Development Servicing Plan (DSP) outlines the regulation of developer charges and explains the way in which charges are calculated.

1.1 Introduction

1.1.1 Developer charges and Development Servicing Plans

The *Sydney Water Act 1994* (the Sydney Water Act) allows the Sydney Water Corporation (Sydney Water) to levy charges on developments that will make use of the services it provides. These developer charges are a means by which Sydney Water can recover the cost of providing infrastructure to service urban development. The information used to calculate developer charges is set out in a DSP.

Sydney Water levies developer charges for recycled water services in accordance with the Independent Pricing and Regulatory Tribunal of NSW's (IPART) *Recycled Water Developer Charges, Determination No. 8, 2006* (the 2006 Determination).

1.1.2 Regulation of developer charges

IPART is an independent authority that regulates the pricing of declared government monopoly services. This includes determining the method for fixing a maximum price for developer services for recycled water schemes.

IPART's regulation of DSPs and developer charges for recycled water schemes is detailed in the 2006 Determination, in which IPART specifies the methodology to be applied by Sydney Water when preparing recycled water developer charges. For the purposes of a full and transparent preparation of the Rouse Hill recycled water developer charge, Sydney Water has prepared this document in accordance with the 2006 Determination.

IPART sets the recycled water usage charges for the Rouse Hill scheme. The recycled water usage charges and the drinking water charges used in this review are those contained in the *Sydney Water Corporation - Maximum prices for water, sewerage, stormwater drainage and other services from 1 July 2016, Determination No. 5, 2016* (the 2016 Price Determination). There is currently no recycled water service charge for the Rouse Hill scheme.

1.1.3 Payment of a recycled water developer charge

As a condition of development consent, the consent authority (usually council) requires a developer to make satisfactory arrangements with Sydney Water for the provision of water related services to a new development. To identify the necessary arrangements, a developer must submit to Sydney Water an application for a Section 73 Compliance Certificate.

Upon receiving the application for a Compliance Certificate, Sydney Water investigates the impact that a proposed development is likely to have on its systems. Sydney Water then issues a Notice of Requirements under s74 of the Sydney Water Act. This sets out the conditions that a developer must satisfy before Sydney Water issues a Section 73 Compliance Certificate. For areas with recycled water services, the Notice of Requirements will include the developer charges payable and/or works that a developer must construct before the services are made available.

1.1.4 Dispute resolution

A developer who is dissatisfied with the way in which Sydney Water has applied IPART's methodology may lodge a complaint with Sydney Water. Following a review by Sydney Water, if a developer is still dissatisfied it may request that the matter be reviewed by way of arbitration. An arbitrator is to be appointed by agreement between the developer and Sydney Water and the costs of the arbitration are to be borne equally.

The dispute process is set out in section 31 of the *Independent Pricing and Regulatory Tribunal Act 1992* (the IPART Act). The first step in this process is to notify Sydney Water of the complaint.

1.1.5 Disclaimer

This DSP and the developer charge it contains have been prepared by Sydney Water to meet the requirements of the 2006 Determination and have been prepared using the latest available information.

1.2 Regulation - principles and calculation method

1.2.1 Principles of the regulation

In the 2006 Determination, IPART set a methodology for fixing the maximum price of recycled water developer charges. The principles underlying the methodology are that developer charges should:

- enable the full recovery of relevant costs
- reflect variations in the costs of servicing different developments
- result in new development areas meeting the costs of the services provided
- cover only infrastructure expenditure on recycled water assets that can be clearly linked to development.

1.2.2 The 2006 Determination

The 2006 Determination requires developer charges to be calculated for one Equivalent Tenement (ET) of development by applying Net Present Value (NPV) principles. IPART defines an ET as the recycled water consumption of an average residential dwelling. Sydney Water has taken this definition to mean the average water consumption by a freestanding or semi-detached residential property.

A developer charge is calculated by the following steps:

- taking the present value of the capital costs of the assets used to service the DSP area
- deducting the present value of the future net operating result expected to be incurred by providing the services to the DSP area
- deducting the present value of the cost offsets associated with the recycled water scheme
- dividing the above result by the present value of the number of the benefiting ETs in the DSP area.

IPART's formula for calculating developer charges is shown below.

$$RWDC = \frac{K_1}{L} + \frac{K_2}{L} - \frac{NPV (R_i - C_i)}{L} - \frac{PV(CO_i)}{L} \text{ for } i = \text{years } 1, 2, \dots, n$$

Where:

RWDC - Recycled Water Developer Charge per Equivalent Tenement

K₁ - Capital Charge for Pre 2007 Assets which will serve the DSP Area calculated on a NPV basis discounted at rate r

K₂ - Capital Charge for Post 2007 Commissioned Assets and/or Post 2007 Uncommissioned Assets which will serve the DSP Area calculated on an NPV basis discounted at rate r

L - the Present Value of the number of Equivalent Tenements in the DSP Area and the Present Value of the number of Equivalent Tenements to be developed in the DSP Area, calculated at discount rate r

R_i - future Operating Revenues in each year i

C_i - future Operating Costs in each year i

r - the Discount Rate

n - the forecast period for the assessment of expected revenues and costs and is 30 years from the date of calculating the RWDC

CO - cost offset in each year i, calculated as follows:

$$CO = S_i + AC_i + DC_i + GD$$

Where:

S - any subsidy received in each year i by a Water Agency for the provision of Recycled Water Developer Services to a Development

AC - Avoided Costs in each year i

DC - Deferred Costs in each year i

GD - costs associated with a Government Directive

1.2.3 Review of DSPs and developer charges

In accordance with the 2006 Determination, this DSP was placed on public exhibition for a period of 30 working days. Sydney Water received no submissions from the public during the exhibition period. The DSP was then finalised and sent to IPART for registration. Once registered, the DSP and developer charge can be reviewed once in each five-year period.

The final developer charge will be subject to an annual adjustment in line with movements in the Consumer Price Index. The quantum of each adjustment is determined by IPART. The first adjustment will take effect from 1 July 2017.

1.2.4 Preparation of DSPs

The 2006 Determination identifies the minimum level of information to be included in each DSP. The information requirements relate to the description of the DSP area, demographic and planning assumptions, the standards of service provided, descriptions of assets and the calculation of a developer charge.

1.3 Forecasting urban development rates

Developer charges are influenced by existing and forecast development that use up the capacity of assets, and the timing of future capital works to service growth. In addition, the operating revenue will vary over time based on periodic pricing determinations.

1.3.1 Existing development

Sydney Water has used its corporate billing and geographic information systems to determine the extent and type of existing development in the DSP area.

1.3.2 Forecasting residential development

As required by the 2006 Determination, Sydney Water has applied the latest Department of Planning and Environment information to forecast the population and residential development in the DSP area. This includes dwelling development, population and occupancy rate projections on a Local Government Area basis.

1.3.3 Forecasting non-residential development

Commercial and industrial development forecasts have been based upon development trends in the DSP area over the last twenty years. Forecast non-residential development has been limited to land currently zoned for commercial and industrial development in the Local Environment Plans of The Hills Shire and Blacktown City Council.

1.4 Forecasting System Demand

1.4.1 Forecasting system demand

The growth forecasts for the Rouse Hill Project Area have been used to estimate future demand on the recycled water system. System design allowances have then been applied to identify infrastructure requirements to meet growth and to ensure standards of service are met. Demand has been expressed in terms of average day demand.

1.4.2 Defining an Equivalent Tenement

The 2006 Determination requires developer charges to be expressed in terms of an ET. IPART defines an ET as a measure of recycled water consumption for an average residential dwelling equal to 110 kL per year.

For the purpose of calculating developer charges it is assumed that an average residential dwelling is a single detached dwelling with a single 20 mm recycled water meter. As such, the design allowances for a single detached dwelling represent the demand of one ET.

All other residential development types are equated to a number of ET based upon the relative design allowances for that development type. For example, if the design allowance for a high density residential flat is half that of a single detached dwelling, then the flat is considered to be 0.5 ET. All demands are equated to an ET for the purpose of calculating a developer charge.

Non-residential properties including commercial and industrial developments and special uses such as schools and parks are equated to a number of ET based upon the relative design allowances for that development type. It is assumed for the DSP calculations that the commercial and industrial development demand is 1,000 kL per hectare per year.

1.5 Determining relevant assets

In accordance with the 2006 Determination, the developer charge calculation includes all recycled water assets that Sydney Water has funded or will fund to provide services to new development.

1.5.1 Existing assets

Sydney Water's financial, developer and geographic information systems were used to identify works that have been constructed to provide a benefit to future development.

- Headworks –the recycled water facilities at the Rouse Hill water recycling plant
- Major works – include recycled water delivery pumping stations, drinking water top-up pumping stations, service reservoirs and large diameter recycled water distribution mains
- Distribution mains and lead-in mains which link developer areas to the existing system
- Reticulation mains which are required to deliver recycled water services within the Rouse Hill Recycled Water Scheme.

1.5.2 Future assets

The 2006 Determination allows Sydney Water to recover the cost of assets that are yet to be constructed and which are identified as being necessary to service future development.

The capital expenditure reflects growth related requirements set out in Sydney Water's Growth Servicing Strategy – *Rouse Hill WRP, 2014 and Growth Servicing Strategy - Rouse Hill Recycled Water Scheme, 2014* and recycled water scheme plans.

1.5.3 Standards of service

The standards of service for supply of recycled water are set out in the Customer Contract in Sydney Water's Operating Licence. These standards may vary over time with the renewal of the Operating Licence.

The current Licence is effective from 1 July 2015 until 30 June 2020. It requires Sydney Water to ensure that the recycled water system and the recycled water supplied to customers comply with the *Australian Guidelines for Water Recycling 2006* as agreed by NSW Health.

1.6 Asset valuation

The 2006 Determination identifies the methods of asset valuation that are to be adopted in the calculation of developer charges. Assets existing at the time of the review are to be valued on a Modern Engineering Equivalent Replacement Asset (MEERA) basis. Proposed assets are to be valued at estimated efficient costs.

1.6.1 Valuation of existing assets

For all existing assets, Sydney Water has applied updated estimates of MEERA values. Values as at July 2015 were used, to meet the required timeframes for this DSP review, as updating MEERA values is a complex process that takes a number of months.

1.6.2 Valuation of future assets

Capital expenditure for future works included in the calculation of developer charges has been based on Sydney Water's Cost Estimating Tool.

1.7 Operating result

The operating result equals the operating revenue from future development less the operating and maintenance costs associated with servicing this development. As required by the 2006 Determination, the forecast operating result is based on the expected urban development in the recycled water DSP area over the next thirty years.

1.7.1 Revenue

The operating revenue forecasts are based upon the 2016 Price Determination for drinking water and recycled water pricing. Beyond the price path, the current service and usage charges have been assumed to remain constant in real terms. That is, the charges only change by the inflation rate. The operating revenues are based on average usage of 110kL per year by a single detached dwelling as required in the 2006 Determination. The forecast operating revenue are contained in Table 4.3 of this document.

1.7.2 Operating and maintenance costs

The future operating and maintenance costs for the Rouse Hill Recycled Water Scheme and are based on actual and estimated costs for the Rouse Hill System (2014-15 costs). The method of calculating costs identifies:

- the processes and activities required to produce the recycled water (eg treatment, distribution)
- the cost driver for each process/activity (eg electricity, chemicals)
- fixed support costs (eg customer meter reading costs)
- fixed corporate overheads (allocated proportional share of Sydney Water's corporate costs in line with the 2016 Price Determination¹)

The majority of the operating and maintenance cost components (eg: energy and chemical use) are variable and depend on throughput. For example, distribution pumping costs are

Sydney Water Corporation - Maximum prices for water, sewerage, stormwater drainage and other services from 1 July 2016 - Final report, 2016 pg 214

calculated using the volume of water supplied, the kilowatts of power required and the unit costs of electricity. However some of operating cost components such as corporate overheads are constant and do not vary with throughput.

Total overall operating costs for the Rouse Hill Recycled Water Scheme are forecast to increase in line with development forecasts as shown in Table 3.3.

1.8 Cost offsets (avoided costs)

The 2006 Determination established a framework for recycled water charges that includes consideration of avoided or deferred costs.

IPART defines an avoided cost as the expected change in the present value of a water agency's operating costs and capital expenditure resulting from the permanent deferral of water or sewerage system augmentation². In other words, cost savings made in water and wastewater systems due to the provision of recycled water services can be deducted or offset against recycled water developer charges. These avoided costs are then recoverable under general water or wastewater pricing.

The Rouse Hill Recycled Water Scheme reduces the volumes of treated effluent and therefore nutrient loads being discharged to waterways draining to the Hawkesbury-Nepean River. Effluent flows from the Rouse Hill area increase with new development. However, Sydney Water must continue to meet the water quality requirements of the regulatory environmental planning approval for the Rouse Hill wastewater treatment plant (WWTP). To comply with the Environment Protection Licence, Sydney Water must either expand recycled water distribution or install additional nitrogen removal facilities at the WWTP.

Applying IPART's Guidelines, Sydney Water has estimated the cost of the two options and calculated a wastewater avoided cost. By expanding the recycled water distribution, Sydney Water defers expenditure of \$24.8 million (present value) that would otherwise be spent on additional treatment processes. This amount is therefore included as an avoided cost in the developer charge calculation.

Sydney Water has also estimated potable water avoided costs attributable to expansion of the Rouse Hill Recycled Water Scheme to be \$2.9 million (present value).

Therefore, the total cost offset in the Rouse Hill recycled water developer charge calculation is \$27.7 million (present value).

² IPART Report Nos 8 and 9, 2006, *Appendix C Guideline for the Calculation and Treatment of avoided and Deferred Costs of Recycled Water*

2 Rouse Hill Recycled Water Scheme

This section provides information about the area served by the Rouse Hill Recycled Water Scheme and the infrastructure included in this DSP. The development and demand rates used in the calculation of the developer charge are also detailed.

2.1 Rouse Hill recycled water DSP

2.1.1 History of the Rouse Hill recycled water supply scheme

The Rouse Hill Project Area is served by a dual water supply system. Two parallel systems are provided, a potable (drinking water) supply for household uses such as drinking, cooking and washing, and a recycled supply for toilet flushing and outdoor uses such as garden watering. Recycled water is tertiary treated sewage effluent that has been further treated to make it suitable for non-potable uses. A dual supply has been provided because this was a requirement specified in the Determining Authority's Report subsequent to the Environmental Impact Assessment for Rouse Hill Sewage Treatment Plant.

The Rouse Hill recycled water system area is owned, operated and maintained by Sydney Water.

2.1.2 Boundaries

The area that receives recycled water from the recycled water pumping station RP0306 defines the boundary of the Rouse Hill Recycled Water DSP. The boundary of this DSP may differ from the previous DSP, reflecting changes in supply operating zones and the servicing of new development areas.

The Rouse Hill Recycled Water Scheme service area is shown in Figure 2-1 (see Section 2.4). Table 2.1 details the area covered by the Rouse Hill Recycled Water DSP, the LGAs and estimated population in 2011, 2020 and 2036 projected population.

Table 2.1 Description of the Rouse Hill Recycled Water DSP Area

Area (hectares)	4,387
Local Government Area	The Hills Shire and Blacktown City Council
Estimated Population 2016³	84,240

³ Population projections based on NSW Department of Planning, State and Local Government Area Population Projections: 2014 Final published May 2014

2.1.3 Recycled water infrastructure

The infrastructure includes:

- Headworks – such as the recycled water facilities at Rouse Hill wastewater treatment plant (WWTP)
- Major works – include recycled water delivery pumping stations, potable water top-up pumping stations, elevated service reservoirs and large diameter recycled water distribution mains
- Lead-in works – which link developer areas to the existing system, and
- Reticulation mains – which are required to deliver recycled water services within the Rouse Hill Project Area.

The Rouse Hill Recycled Water Scheme is supplied by the recycled water plant located at the Rouse Hill WWTP. Tertiary treated effluent from the WWTP is treated in the recycled water plant by superchlorination and ultraviolet (UV) disinfection. This treatment ensures that the recycled water meets the quality guidelines set by *The Australian Guidelines for Water Recycling: Managing Health and Environmental Risks* (2006).

Recycled water is pumped via RP0306 to service reservoirs at Parklea, Parklea North and Kellyville. It is then distributed to the Rouse Hill Project Area via the recycled water trunk mains. When demand for recycled water exceeds supply the recycled water reservoirs are supplemented with drinking water. Each recycled water reservoir incorporates a drinking water top-up pumping station.

Most of the Rouse Hill Recycled Water Scheme has already been constructed. Future works will extend services to developments in North Kellyville and to release areas to the north of Parklea known as Second Ponds Creek and Area 20. These works are shown in Figure 2-1 (see Section 2.4).

2.2 Development rates and demand rates

Table 2-1 details the actual and forecast development within the Rouse Hill Recycled Water System based on residential dwellings and non-residential demand (kL). These rates are based on the method outlined in Section 1.3.

Table 2-1 - Development rates – Rouse Hill Recycled Water Scheme

Financial Year	Single Residential Dwellings	Multi Residential Dwellings	Non-Residential kL
1992-93	0	0	0
1993-94	0	0	0
1994-95	119	6	0
1995-96	256	19	0
1996-97	374	1	7,380 kL
1997-98	753	10	3,690 kL
1998-99	1,140	19	1,845 kL
1999-00	1,862	21	3,690 kL
2000-01	6,362	35	12,915 kL
2001-02	2,311	0	29,519 kL
2002-03	1,798	35	27,674 kL
2003-04	1,043	73	23,984 kL
2004-05	672	18	11,070 kL
2005-06	481	67	18,450 kL
2006-07	758	26	31,364 kL
2007-08	649	125	9,863 kL
2008-09	587	136	9,863 kL
2009-10	255	1	29,670 kL
2010-11	557	44	11,313 kL
2011-12	1,377	140	2,000 kL
2012-13	1,280	74	4,000 kL
2013-14	1,280	126	2,000 kL
2014-15	504	16	18,993 kL
2015-16	1,128	88	3,000 kL
2016-17	1,220	93	3,000 kL
2017-18	1,318	123	3,000 kL
2018-19	1,306	119	3,000 kL
2019-20	1,260	119	5,000 kL
2020-21	1,019	304	5,000 kL

Financial Year	Single Residential Dwellings	Multi Residential Dwellings	Non-Residential kL
2021-22	799	304	5,000 kL
2022-23	799	304	5,000 kL
2023-24	799	304	4,000 kL
2024-25	799	304	4,000 kL
2025-26	799	304	4,000 kL
2026-27	799	304	4,000 kL
2027-28	799	304	4,000 kL
2028-29	799	304	4,000 kL
2029-30	791	304	4,000 kL
2030-31	339	304	4,000 kL
2031-32	339	304	4,000 kL
2032-33	339	304	4,000 kL
2033-34	339	304	4,000 kL
2034-35	339	304	4,000 kL
2035-36	0	0	0
2036-37	0	0	0
2037-38	0	0	0
2038-39	0	0	0
2039-40	0	0	0
2040-41	0	0	0
2041-42	0	0	0
2042-43	0	0	0
2043-44	0	0	0
2044-45	0	0	0
Total	40,550	6,093	339,283 kL

Table 2-2 details the actual and forecast demand within the Rouse Hill Recycled Water System based on ETs. These rates are based on the method outlined in Section 2.4.

Table 2-2 - Demand rates (average ET) – Rouse Hill Recycled Water Scheme

Financial Year	Single Residential Growth ET	Multi Residential Growth ET	Non Residential Growth ET
1992-93	0	0	0
1993-94	0	0	0
1994-95	119	4	0
1995-96	256	12	0
1996-97	374	1	67
1997-98	753	6	34
1998-99	1,140	12	17
1999-00	1,862	13	34
2000-01	6,362	22	117
2001-02	2,311	0	268
2002-03	1,798	22	252
2003-04	1,043	46	218
2004-05	672	11	101
2005-06	481	42	168
2006-07	758	16	285
2007-08	649	78	90
2008-09	587	85	90
2009-10	255	1	270
2010-11	557	28	103
2011-12	1,377	88	18
2012-13	1,280	46	36
2013-14	1,280	79	18
2014-15	504	10	173
2015-16	1,128	55	29
2016-17	1,220	58	29
2017-18	1,318	77	29
2018-19	1,306	75	29
2019-20	1,260	75	47
2020-21	1,019	191	47
2021-22	799	191	47

Financial Year	Single Residential Growth ET	Multi Residential Growth ET	Non Residential Growth ET
2022-23	799	191	47
2023-24	799	191	37
2024-25	799	191	37
2025-26	799	191	37
2026-27	799	191	37
2027-28	799	191	37
2028-29	799	191	37
2029-30	791	191	37
2030-31	339	191	33
2031-32	339	191	33
2032-33	339	191	33
2033-34	339	191	33
2034-35	339	191	33
2035-36	0	0	0
2036-37	0	0	0
2037-38	0	0	0
2038-39	0	0	0
2039-40	0	0	0
2040-41	0	0	0
2041-42	0	0	0
2042-43	0	0	0
2043-44	0	0	0
2044-45	0	0	0
Total	40,550	3,822	3,091

2.3 Assets

The assets included in the calculation of the Rouse Hill Recycled Water DSP have been identified and valued in accordance with the method described in Section 1.5 and Section 1.6. The assets are provided in Table 2-3, Table 2-4 and Appendix 1.

2.3.1 Existing assets

Existing assets constructed to service development in the area covered by this DSP include the water treatment plant, reservoirs, mains and pumping stations. The values of these assets are included in the calculation of the developer charge and are described in Appendix 1. This shows the following asset details:

- commissioning dates
- infrastructure size/length of pipelines
- values
- unit costs (where applicable).Future assets

Planned future assets included in the developer charge are detailed in Table 2-3 to Table 2-4. The proposed timing of commissioning of future assets is also identified in the tables.

These assets have been identified based on the forecast development rates in the Rouse Hill Project Area.

Table 2-3 - Planned future recycled water pipelines

Financial Year (proposed timing)	Description	Purpose	Length (m)	Diameter (mm)	Modern Material	% Growth	Value in DSP (\$2015-16)
Gravity Mains							
2017-18	Foxall Road	To serve growth in Nth Kellyville Release	620	250	UPVC	100%	\$1,032,808
2016-17	Foxall Road	To serve growth in Nth Kellyville	500	375	UPVC	100%	\$1,157,690
2017-18	Foxall Road	To serve growth in Nth Kellyville	490	300	UPVC	100%	\$897,726
2017-18	Samantha Riley Drive	To serve growth in Nth Kellyville Release	515	300	UPVC	100%	\$1,017,778
2030-31	Reticulation for Kellyville	Reticulation for Kellyville – upgrade from DN100 to DN200	186	200	PVC	100%	\$107,322
2030-31	Reticulation for Kellyville	Reticulation for Kellyville – upgrade from DN100 to DN200	192	200	PVC	100%	\$110,784
2030-31	Reticulation for Kellyville	Reticulation for Kellyville – upgrade from DN100 to DN200	21	200	PVC	100%	\$12,117
2015-16	Stringer Road	To serve growth in North Kellyville	960	250	uPVC	100%	\$1,565,625
2017-18	Girrawilla Ave	To serve growth in North Kellyville	390	250	uPVC	100%	\$665,721
2015-16	White Gum Place	To serve growth in North Kellyville	100	300	uPVC	100%	\$237,919
2017-18	Extension of Ballymore and Lord Ave	To serve growth in North Kellyville	420	200	uPVC	100%	\$640,216
2017-18	Future Road via Hezlett Road	To serve growth in North Kellyville	300	200	uPVC	100%	\$471,586

Financial Year (proposed timing)	Description	Purpose	Length (m)	Diameter (mm)	Modern Material	% Growth	Value in DSP (\$2015-16)
2016-17	Cudgegong Rd between Schofields Rd and Rouse Rd	To serve growth in Area 20	834	200	uPVC	100%	\$1,222,006
2017-18	Tallawong Rd include Ridgeline under Schofields	To serve growth in Area 20	330	200	uPVC/SCL	100%	\$660,084
2017-18	Proposed road off Windsor Rd opposite Commercial Rd	To serve growth in Area 20	290	200	uPVC	100%	\$208,781
2019-20	Terry Rd between Schofields and Rouse Rd	To serve growth in Area 20	880	200	uPVC	100%	\$1,286,648
2019-20	Rouse Rd between Windsor and Cudgegong	To serve growth in Area 20	1,225	200	uPVC	100%	\$1,771,469
2019-20	Cudgegong Rd between Rouse Rd and the reservoir	To serve growth in Area 20	400	200	uPVC	100%	\$612,113
2025-26	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2026-27	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2027-28	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2028-29	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000

Financial Year (proposed timing)	Description	Purpose	Length (m)	Diameter (mm)	Modern Material	% Growth	Value in DSP (\$2015-16)
2029-30	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2030-31	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2031-32	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2032-33	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2033-34	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2034-35	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2035-36	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2036-37	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2037-38	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2038-39	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000

Financial Year (proposed timing)	Description	Purpose	Length (m)	Diameter (mm)	Modern Material	% Growth	Value in DSP (\$2015-16)
2039-40	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2040-41	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2041-42	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2042-43	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2043-44	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000
2044-45	Water Meter Replacement	Meter replaced over 25yr, \$60 replacement and installation per meter				100%	\$113,000

Table 2-4 - Planned future recycled water pumping station and recycled water treatment plant works

Financial Year proposed	Description	Purpose	Type	Size (ML)	% Growth	Value in DSP (\$2015-16)
2030-31	Additional super chlorination tank	Upgrade of recycled water treatment facility			100%	\$2,000,000
2017-18	Electricity upgrade	To meet the future electrical demands of the WRP			100%	\$3,300,000
2025-26	Kellyville WP307	Replacement of pumps (every 15 years)			100%	\$100,000
2040-41	Kellyville WP307	Replacement of pumps (every 15 years)			100%	\$100,000
2025-26	Parklea North WP308	Replacement of pumps (every 15 years)			100%	\$100,000
2040-41	Parklea North WP308	Replacement of pumps (every 15 years)			100%	\$100,000
2025-26	Parklea WP309	Replacement of pumps (every 15 years)			100%	\$100,000
2040-41	Parklea WP309	Replacement of pumps (every 15 years)			100%	\$100,000
2017-18	Kellyville RX0001	Chlorination Plant Overhaul			100%	\$550,000
2027-28	Kellyville RX0001	Mechanical renewal (every 10 yrs)			100%	\$100,000
2037-38	Kellyville RX0001	Mechanical renewal (every 10 yrs)			100%	\$100,000
2027-28	Kellyville RX0001	Electrical renewal (every 10 yrs)			100%	\$100,000
2037-38	Kellyville RX0001	Electrical renewal (every 10 yrs)			100%	\$100,000
2024-25	Kellyville RX0001	Electronic renewal (every 7 yrs)			100%	\$50,000
2031-32	Kellyville RX0001	Electronic renewal (every 7 yrs)			100%	\$50,000

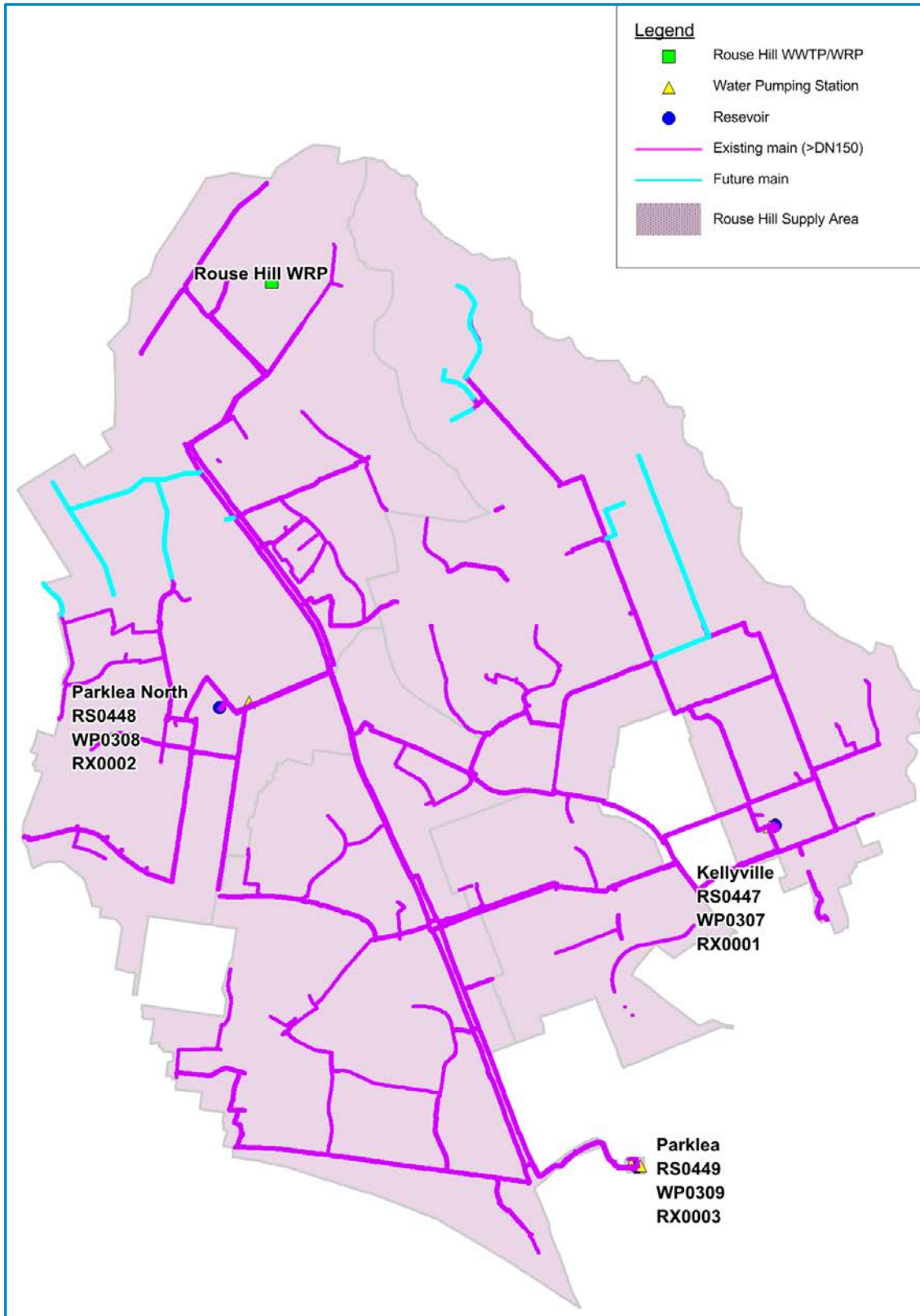
Financial Year proposed	Description	Purpose	Type	Size (ML)	% Growth	Value in DSP (\$2015-16)
2038-39	Kellyville RX0001	Electronic renewal (every 7 yrs)			100%	\$50,000
2032-33	Kellyville RX0001	Building renewal (every 15 years)			100%	\$80,000
2017-18	Parklea North RX0002	Chlorination Plant Overhaul			100%	\$550,000
2027-28	Parklea North RX0002	Mechanical renewal (every 10 yrs)			100%	\$100,000
2037-38	Parklea North RX0002	Mechanical renewal (every 10 yrs)			100%	\$100,000
2027-28	Parklea North RX0002	Electrical renewal (every 10 yrs)			100%	\$100,000
2037-38	Parklea North RX0002	Electrical renewal (every 10 yrs)			100%	\$100,000
2024-25	Parklea North RX0002	Electronic renewal (every 7 yrs)			100%	\$50,000
2031-32	Parklea North RX0002	Electronic renewal (every 7 yrs)			100%	\$50,000
2038-39	Parklea North RX0002	Electronic renewal (every 7 yrs)			100%	\$50,000
2032-33	Parklea North RX0002	Building renewal (every 15 years)			100%	\$80,000
2017-18	Parklea RX0003	Chlorination Plant Overhaul			100%	\$550,000
2026-27	Parklea RX0003	Mechanical renewal (every 10 yrs)			100%	\$100,000
2036-37	Parklea RX0003	Mechanical renewal (every 10 yrs)			100%	\$100,000
2026-27	Parklea RX0003	Electrical renewal (every 10 yrs)			100%	\$100,000
2036-37	Parklea RX0003	Electrical renewal (every 10 yrs)			100%	\$100,000

Financial Year proposed	Description	Purpose	Type	Size (ML)	% Growth	Value in DSP (\$2015-16)
2023-24	Parklea RX0003	Electronic renewal (every 7 yrs)			100%	\$50,000
2030-31	Parklea RX0003	Electronic renewal (every 7 yrs)			100%	\$50,000
2037-38	Parklea RX0003	Electronic renewal (every 7 yrs)			100%	\$50,000
2044-45	Parklea RX0003	Electronic renewal (every 7 yrs)			100%	\$50,000
2031-32	Parklea RX0003	Building renewal (every 15 years)			100%	\$80,000
2025-26	UV system & super chlorination tank	Disinfection Plant Overhaul			100%	\$200,000
2040-41	UV system & super chlorination tank	Disinfection Plant Overhaul			100%	\$200,000

2.4 Plan of the network system

Figure 2-1 shows the area covered by the Rouse Hill Recycled Water DSP and the works that service this area or are planned to meet future development.

Figure 2-1 - Recycled water infrastructure (existing and proposed)



3 Developer charge calculation

3.1 Key assumptions and inputs

This section sets out key assumptions in the calculation of developer charge and financial inputs including capital expenditure and future operating expenditure and revenues.

Table 3-1 - Inputs to the developer charge calculation model

Recycled Water Scheme	Rouse Hill	
Present Year for Evaluation	2016-17	
Real Pre-tax Rate of Return	5.9%	
Recycled Water Charges	2015-16	2016-17
Service Charge (20mm, \$/year)	0	0
Usage Charge (\$/kL nominal dollars)	1.817	1.79
Recycled Water Average Consumption		
ET Consumption (kL/year)	110	
Multi Residential (kL/dwelling/year)	69	
Non Residential (kL/ha/year)	1,000	

Table 3-2 - Annual capital expenditure and capital charge

Financial Year	CAPEX (Constant, \$2015-16)	Current Value or Present Value of CAPEX	Current Value or Present Value of Growth ETs
1992-93	\$2,689,146	\$10,051,282	0
1993-94	\$17,333,552	\$61,178,481	0
1994-95	\$21,083,681	\$70,268,649	409
1995-96	\$38,544,421	\$121,305,565	843
1996-97	\$1,052,856	\$3,128,905	1,313
1997-98	\$1,097,143	\$3,078,863	2,225
1998-99	\$109,227	\$289,443	3,097
1999-00	\$2,724,477	\$6,817,396	4,776
2000-01	\$3,675,348	\$8,684,361	15,362
2001-02	\$1,421,239	\$3,171,105	5,755
2002-03	\$80,887	\$170,421	4,365
2003-04	\$393,799	\$783,477	2,600
2004-05	\$1,760,980	\$3,308,339	1,473
2005-06	\$5,709,759	\$10,129,253	1,225
2006-07	\$1,682,821	\$2,819,041	1,775
2007-08	\$13,127,287	\$20,765,512	1,292
2008-09	\$1,327,396	\$1,982,770	1,138
2009-10	\$2,486,383	\$3,507,064	741
2010-11	\$3,342,878	\$4,452,463	916
2011-12	\$2,662,687	\$3,348,913	1,865
2012-13	\$1,695,420	\$2,013,562	1,619
2013-14	\$898,261	\$1,007,383	1,545
2014-15	\$215,896	\$228,634	727
2015-16	\$1,803,544	\$1,803,544	1,213
2016-17	\$2,379,696	\$2,247,116	1,235
2017-18	\$10,544,700	\$9,402,478	1,270
2018-19	\$0	\$0	1,187
2019-20	\$3,670,230	\$2,918,162	1,099
2020-21	\$0	\$0	944
2021-22	\$0	\$0	735
2022-23	\$0	\$0	694
2023-24	\$50,000	\$31,608	649

Financial Year	CAPEX (Constant, \$2015-16)	Current Value or Present Value of CAPEX	Current Value or Present Value of Growth ETs
2024-25	\$100,000	\$59,695	613
2025-26	\$613,000	\$345,542	579
2026-27	\$313,000	\$166,605	547
2027-28	\$513,000	\$257,849	516
2028-29	\$113,000	\$53,633	488
2029-30	\$113,000	\$50,645	457
2030-31	\$2,393,223	\$1,012,847	238
2031-32	\$293,000	\$117,093	225
2032-33	\$273,000	\$103,022	212
2033-34	\$113,000	\$40,267	201
2034-35	\$113,000	\$38,024	189
2035-36	\$113,000	\$35,905	0
2036-37	\$313,000	\$93,914	0
2037-38	\$563,000	\$159,513	0
2038-39	\$213,000	\$56,987	0
2039-40	\$113,000	\$28,548	0
2040-41	\$613,000	\$146,238	0
2041-42	\$113,000	\$25,456	0
2042-43	\$113,000	\$24,037	0
2043-44	\$113,000	\$22,698	0
2044-45	\$163,000	\$30,918	0
Total pre 2014-15 (inclusive)	\$125,115,543	\$342,490,883	
Total post 2014-15	\$25,828,393	\$19,272,345	
Total	\$150,943,936	\$361,763,228	
Capital Charge (\$/ET) in 2015-16 dollars			
Capital 1992-93 to 2014-15			\$5,011
Capital 2015-16 to 2044-45			\$282
Total			\$5,293

Table 3-3 - Forecast revenue

Financial Year	Usage Revenue (Constant \$2015-16)		Service Charge Revenue (Constant \$2015-16)		Total Revenue (Constant \$2015-16)
	Residential	Non Residential	Residential	Non Residential	
2015-16	5,291,120	478,837	0	0	\$5,769,958
2016-17	5,370,702	471,761	0	0	\$5,842,463
2017-18	5,605,671	477,071	0	0	\$6,082,743
2018-19	5,863,385	482,381	0	0	\$6,345,766
2019-20	6,118,274	487,691	0	0	\$6,605,965
2020-21	6,364,207	496,541	0	0	\$6,860,748
2021-22	6,585,811	505,391	0	0	\$7,091,202
2022-23	6,764,581	514,241	0	0	\$7,278,822
2023-24	6,943,351	523,091	0	0	\$7,466,442
2024-25	7,122,121	529,982	0	0	\$7,652,103
2025-26	7,300,891	536,874	0	0	\$7,837,764
2026-27	7,479,661	543,765	0	0	\$8,023,426
2027-28	7,658,431	550,656	0	0	\$8,209,087
2028-29	7,837,201	557,547	0	0	\$8,394,748
2029-30	8,015,971	564,438	0	0	\$8,580,409
2030-31	8,193,183	571,330	0	0	\$8,764,513
2031-32	8,282,391	577,435	0	0	\$8,859,827
2032-33	8,371,599	583,541	0	0	\$8,955,140
2033-34	8,460,807	589,647	0	0	\$9,050,454
2034-35	8,550,015	595,753	0	0	\$9,145,768
2035-36	8,639,223	601,859	0	0	9,241,082
2036-37	8,639,223	601,859	0	0	9,241,082
2037-38	8,639,223	601,859	0	0	9,241,082
2038-39	8,639,223	601,859	0	0	9,241,082
2039-40	8,639,223	601,859	0	0	9,241,082
2040-41	8,639,223	601,859	0	0	9,241,082
2041-42	8,639,223	601,859	0	0	9,241,082
2042-43	8,639,223	601,859	0	0	9,241,082
2043-44	8,639,223	601,859	0	0	9,241,082
2044-45	8,639,223	601,859	0	0	9,241,082
Total	\$228,571,602	\$16,656,562	0	0	\$245,228,164

Table 3-4 - Net operating result

Financial Year	Total Revenue (Constant \$2015-16)	O & M Costs (Constant \$2015-16)	Net Operating Result (Constant \$2015-16)	Average ET Growth
2015-16	\$5,769,958	\$3,335,993	\$2,433,964	1,213
2016-17	\$5,842,463	\$3,259,074	\$2,583,389	1,235
2017-18	\$6,082,743	\$3,367,624	\$2,715,119	1,270
2018-19	\$6,345,766	\$3,485,169	\$2,860,598	1,187
2019-20	\$6,605,965	\$3,602,601	\$3,003,364	1,099
2020-21	\$6,860,748	\$3,773,020	\$3,087,728	944
2021-22	\$7,091,202	\$3,826,323	\$3,264,879	735
2022-23	\$7,278,822	\$3,910,509	\$3,368,313	694
2023-24	\$7,466,442	\$3,994,135	\$3,472,306	649
2024-25	\$7,652,103	\$4,077,476	\$3,574,628	613
2025-26	\$7,837,764	\$4,210,816	\$3,626,949	579
2026-27	\$8,023,426	\$4,244,156	\$3,779,270	547
2027-28	\$8,209,087	\$4,327,496	\$3,881,591	516
2028-29	\$8,394,748	\$4,410,836	\$3,983,912	488
2029-30	\$8,580,409	\$4,494,176	\$4,086,233	457
2030-31	\$8,764,513	\$4,626,596	\$4,137,916	238
2031-32	\$8,859,827	\$4,619,628	\$4,240,199	225
2032-33	\$8,955,140	\$4,662,659	\$4,292,481	212
2033-34	\$9,050,454	\$4,705,691	\$4,344,764	201
2034-35	\$9,145,768	\$4,748,722	\$4,397,046	189
2035-36	9,241,082	\$4,829,275	\$4,411,807	0
2036-37	9,241,082	\$4,779,275	\$4,461,807	0
2037-38	9,241,082	\$4,779,275	\$4,461,807	0
2038-39	9,241,082	\$4,779,275	\$4,461,807	0
2039-40	9,241,082	\$4,779,275	\$4,461,807	0
2040-41	9,241,082	\$4,829,275	\$4,411,807	0
2041-42	9,241,082	\$4,779,275	\$4,461,807	0
2042-43	9,241,082	\$4,779,275	\$4,461,807	0
2043-44	9,241,082	\$4,779,275	\$4,461,807	0
2044-45	9,241,082	\$4,779,275	\$4,461,807	0
Total	\$245,228,164	\$129,575,449	\$115,652,715	
Present Value	\$112,217,919	\$60,012,309	\$52,205,610	68,352
\$ per ET			\$764	

3.2 Developer charge

The following table details the components of the developer charge calculation.

Table 3-5 - Components of the developer charge

\$2015/16					\$2016/17
Capital Charge 1992-93 to 2014-15	Capital Charge 2015-16 to 2044-45	Net Operating Result	Avoided Costs	Developer Charge	Developer Charge
\$5,011	\$282	\$764	\$405	\$4,124	\$4,186

Table 3-6 - Schedule of developer charges

Revised Developer Charge \$2016-17		
Development	Density	Charge (\$/dwelling)
Residential – Remainder of development (dwellings per pure net hectare*)	0 – 20	\$4,186
	21 – 35	\$3,182
	36 – 50	\$2,135
	51 – 65	\$1,758
	66 – 80	\$1,507
	81– 95	\$1,423
	96 – 125	\$1,256
	126 - 155	\$1,130
	> 155	\$921
Non-Residential	\$4,186 per ET based on assessed flows	

*Pure net area equates to developable area

Appendix 1 – Commissioned Assets funded by Sydney Water

Table A1: Existing Gravity and Pressure Mains

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
Gravity Mains					
2005-2006	Withers Rd	To serve growth in Rouse Hill Area	21	200	\$18,732
2005-2006	Withers Rd	To serve growth in Rouse Hill Area	535	200	\$308,695
2005-2006	Annangrove Rd	To serve growth in the Annangrove Rd Industrial Area	4	250	\$2,451
2005-2006	Annangrove Rd	To serve growth in the Annangrove Rd Industrial Area	50	250	\$51,650
2005-2006	Annangrove Rd	To serve growth in the Annangrove Rd Industrial Area	1,752	250	\$1,130,040
2004-2005	Tamarind Dr, Acacia Gardens	To serve growth in Parklea and Acacia Gardens	252	250	\$63,391
2004-2005	Stanhope Parkway, Fyfe Rd and Keirle Rd	To serve growth in Second Ponds Creek Area	36	300	\$41,940
2005-2006	Withers Rd	To serve growth in the Annangrove Rd Industrial Area	50	300	\$58,250
2006-2007	Windsor Rd	To serve growth in the Balmoral Road Release	317	300	\$369,305
2004-2005	Sunnyholt Rd (from Ali Place to easement near Trevor Toms)	To serve growth in Parklea and Acacia Gardens	89	300	\$103,685
2006-2007	Windsor Rd	To serve growth in the Balmoral Road Release	768	300	\$575,232
2004-2005	Stanhope Parkway, Fyfe Rd and Keirle Rd	To serve growth in Second Ponds Creek Area	675	300	\$505,575
2005-2006	Annangrove Rd	To serve growth in the Annangrove Rd Industrial Area	979	300	\$733,271
2004-2005	Stanhope Parkway, Fyfe Rd and Keirle Rd	To serve growth in Second Ponds Creek Area	10	375	\$8,900
2004-2005	Stanhope Parkway, Fyfe Rd and Keirle Rd	To serve growth in Second Ponds Creek Area	22	375	\$31,306
2006-2007	Memorial Ave	To serve growth in the Balmoral Road Release	154	375	\$219,142
2005-2006	Windsor Rd	To serve growth in the Balmoral Road Release	190	375	\$169,100
2006-2007	Memorial Ave	To serve growth in the Balmoral Road Release	490	375	\$436,100
2004-2005	Stanhope Parkway, Fyfe Rd and Keirle Rd	To serve growth in Second Ponds Creek Area	1,030	375	\$916,700
2005-2006	Proposed North-South Rd	To serve growth in Second Ponds Creek Area	549	375	\$488,610
2005-2006	Denden Ave	To serve growth in Second Ponds Creek Area	1	450	\$1,277

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2005-2006	Proposed North-South Rd	To serve growth in Second Ponds Creek Area	16	450	\$20,432
2005-2006	Proposed Rds in Second Ponds Ck release area	To serve growth in Second Ponds Creek Area	477	450	\$609,129
2005-2006	President Ave	To serve growth in the Balmoral Road Release	23	450	\$29,371
2005-2006	Proposed Rds in Second Ponds Ck release area	To serve growth in Second Ponds Creek Area	15	450	\$25,050
2005-2006	President Ave	To serve growth in the Balmoral Road Release	510	450	\$651,270
2005-2006	Proposed Rds in Second Ponds Ck release area	To serve growth in Second Ponds Creek Area	325	450	\$415,025
2005-2006	Braemont Ave and Proposed North-South Rd	To serve growth in Second Ponds Creek Area	672	450	\$858,144
2000-2001	Lot 6 Meurants Lane, GLENWOOD	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	227	100	\$45,599
2000-2001	Malvern Rd, GLENWOOD	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	340	100	\$20,803
2000-2001	Stge1 Old Windsor Rd Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	820	100	\$39,428
2001-2002	Lemongrove Stages 1,3,12	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	643	100	\$36,518
2001-2002	Quakers Hill Pkway, Acacia Garden-RW	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	284	100	\$37,250
2001-2002	Tamarind Dr, Acacia Garden	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	380	100	\$49,863
2001-2002	Tamarind Dr, Acacia Garden	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	662	100	\$86,841
2004-2005	Wilson Rd, ACACIA GARDENS	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	194	100	\$46,533
2000-2001	Sunnyholt Rd GLENWOOD	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	251	150	\$22,781
2001-2002	Lemongrove Stages 1,3,12	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	169	150	\$10,521
2000-2001	Sunnyholt Rd	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	5	200	\$2,885
2000-2001	Sunnyholt Rd	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	34	200	\$30,328
1996-1997	Windsor Rd, between Old Windsor and Samantha Riley Dr, Kellyville	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	4	200	\$2,308

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
1999-2000	Sunnyholt Rd	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	1,272	200	\$733,944
2001-2002	Tamarind Dr, Acacia Garden	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	240	200	\$41,572
1996-1997	Windsor Rd, between Old Windsor and Samantha Riley Dr, Kellyville	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	46	250	\$47,518
1996-1997	Crossing Windsor Rd to Sharrock Av, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	47	250	\$48,551
2003-2004	Wilson Rd, ACACIA GARDENS	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	43	250	\$24,420
2003-2004	Intersection of Stanhope and Sentry Dr	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	46	250	\$47,569
1995-1996	Stanhope Parkway, between Sentry and Perfection Dr, Stanhope Gardens	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	357	250	\$230,265
1996-1997	Windsor Rd, between Old Windsor and Samantha Riley Dr, Kellyville	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	1,141	250	\$735,945
1996-1997	Crossing Windsor Rd to Sharrock Av, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	173	250	\$111,585
2001-2002	Quakers Hill Pkway, Acacia Gardens-RW	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	106	250	\$20,553
2001-2002	Tamarind Dr, Acacia Garden	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	202	250	\$39,096
2001-2002	Tamarind Dr, Acacia Garden	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	233	250	\$45,113
2003-2004	Wilson Rd, ACACIA GARDENS	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	344	250	\$122,034
2003-2004	Intersection of Stanhope and Sentry Dr	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	105	250	\$67,424
2003-2004	Tamarind Dr, Acacia Gardens	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	26	250	\$5,097
1999-2000	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	25	300	\$18,725
1994-1995	Stanhope Pkway - Drainage Crossings	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	69	300	\$80,385
1994-1995	Stanhope Pkway - Line RP7/RP8.	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	751	300	\$562,499

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
1994-1995	Sunnyholt Rd - Line RP5/RP6	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	7	300	\$5,243
1997-1998	Parklea Zone - Meurants Lane	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	2	300	\$1,498
1998-1999	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	210	300	\$75,499
1999-2000	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	90	300	\$32,357
1999-2000	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	159	300	\$57,164
1999-2000	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	41	300	\$30,709
1999-2000	Parklea Zone - Glenwood Drive	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	125	300	\$44,940
1999-2000	Meurants Lane, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	13	300	\$9,737
2000-2001	Parklea Zone - Meurants Lane	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	3	300	\$2,247
2000-2001	Lot 6 Meurants Lane, GLENWOOD	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	9	300	\$3,088
2000-2001	Ali PI, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	131	300	\$98,238
2000-2001	Meurants Lane, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	9	300	\$6,741
1999-2000	Meurants Lane, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	4	375	\$3,560
2000-2001	Parklea Zone - Meurants Lane	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	5	375	\$7,115
1993-1994	Meurants Ln between Glenwood Park Dr to Edwin PI- Line RP10	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	1,105	375	\$983,450
1994-1995	Sunnyholt Rd - Line RP5/RP6	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	227	375	\$202,030
1997-1998	Parklea Zone - Meurants Lane	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	27	375	\$24,030
2000-2001	Meurants Ln 161527	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	689	375	\$613,210

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2000-2001	Parklea Zone - Meurants Lane	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	14	375	\$12,460
2000-2001	Lot 6 Meurants Lane, GLENWOOD	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	155	375	\$63,615
2002-2003	Meurants Lane, off Valis Rd Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	61	375	\$54,272
1992-1993	Meurants Ln between Glenwood Park D to Edwin PI- Line RP10	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	17	400	\$28,390
2001-2002	Sunnyholt Rd crossing off Meurants Lane, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	45	400	\$75,760
2001-2002	Sunnyholt crossing, off Sorento Dr, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	41	400	\$67,897
1993-1994	Old Windsor Rd, Balmoral to Windsor Rd - Line R3 106423	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	98	450	\$119,266
1993-1994	Meurants Lane between Edwin PI to Windsor Rd, Glenwood	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	818	450	\$995,506
1994-1995	Old Windsor Rd, Balmoral to Windsor Rd - Line R3 160423	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	2,426	450	\$2,952,442
1993-1994	Norwest Blvd from Old Windsor - Line RP1 160425	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	403	600	\$847,912
1994-1995	Old Windsor Rd, Norwest to Burns Rd - Line RP2 160423	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	1,782	600	\$3,749,328
1993-1994	Parklea Outlet Main - Line RP1. Laid 28/10/93	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	6	750	\$12,624
1993-1994	Parklea Outlet Main - Line RP1 mains laid 28/10/93	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	680	750	\$1,430,720
2000-2001	Conrad Rd Kellyville	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1,649	100	\$223,429
2001-2002	Conrad Rd Kellyville	To service growth in Rouse Hill and Kellyville Ridge suburbs.	645	100	\$92,943
2001-2002	Conrad Rd Kellyville	To service growth in Rouse Hill and Kellyville Ridge suburbs.	405	150	\$63,920
1999-2000	Mile End	To service growth in Rouse Hill and Kellyville Ridge suburbs.	752	200	\$433,904
1993-1994	Windsor Road, Rouse Rd to Mile End - Line RPN6	To service growth in Rouse Hill and Kellyville Ridge suburbs.	13	250	\$8,385

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
1994-1995	Mile End Road - Line RPN1	To service growth in Rouse Hill and Kellyville Ridge suburbs.	569	250	\$367,005
1996-1997	Commercial Road - Line RPN11/RPN10 160838 106429	To service growth in Rouse Hill and Kellyville Ridge suburbs.	126	250	\$81,270
1998-1999	Commercial Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	47	250	\$30,315
2000-2001	Conrad Rd Kellyville	To service growth in Rouse Hill and Kellyville Ridge suburbs.	342	250	\$68,308
2001-2002	Intersection of Braemont Ave and Fyfe Rd, Kellyville Ridge	To service growth in Rouse Hill and Kellyville Ridge suburbs.	94	250	\$19,967
2003-2004	Conrad Rd, Kellyville Ridge	To service growth in Rouse Hill and Kellyville Ridge suburbs.	82	250	\$32,902
1993-1994	Commercial Road - Line RPN11/RPN10 160838 106429	To service growth in Rouse Hill and Kellyville Ridge suburbs.	14	300	\$16,310
1993-1994	Commercial Road - Line RPN11/RPN10 160838 106429	To service growth in Rouse Hill and Kellyville Ridge suburbs.	63	300	\$73,395
1994-1995	Mile End Road - Line RPN9	To service growth in Rouse Hill and Kellyville Ridge suburbs.	305	300	\$228,445
1997-1998	Commercial Road - Line RPN11/RPN10 160838 106429	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1,087	300	\$814,163
1997-1998	Commercial Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	119	300	\$89,131
1998-1999	Commercial Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1	300	\$749
2000-2001	Keirle Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	6	300	\$4,494
2003-2004	Conrad Rd, Kellyville Ridge	To service growth in Rouse Hill and Kellyville Ridge suburbs.	10	300	\$4,723
2003-2004	Conrad Rd, between H84 & H98, Kellyville Ridge	To service growth in Rouse Hill and Kellyville Ridge suburbs.	107	300	\$80,025
1999-2000	Windsor Road, Old Windsor to Merriville - Line RPN3	To service growth in Rouse Hill and Kellyville Ridge suburbs.	26	375	\$36,972
1994-1995	Mile End Road - Line RPN7/RPN8	To service growth in Rouse Hill and Kellyville Ridge suburbs.	501	375	\$445,890
1994-1995	Windsor Road, Old Windsor to Merriville - Line RPN3	To service growth in Rouse Hill and Kellyville Ridge suburbs.	543	375	\$483,270

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
1999-2000	Keirle Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	213	375	\$189,570
2000-2001	Clower Ave, between H36 and H52	To service growth in Rouse Hill and Kellyville Ridge suburbs.	133	375	\$118,407
2000-2001	Conrad Rd	To service growth in Rouse Hill and Kellyville Ridge suburbs.	6	450	\$7,302
1993-1994	Windsor Road, Merriville to Rouse Rd - Line RPN4	To service growth in Rouse Hill and Kellyville Ridge suburbs.	891	450	\$1,084,347
1994-1995	Windsor Road, Rouse Rd to Mile End - Line RPN6	To service growth in Rouse Hill and Kellyville Ridge suburbs.	222	450	\$270,174
2000-2001	Conrad Road	To service growth in Rouse Hill and Kellyville Ridge suburbs.	474	450	\$576,858
1993-1994	Windsor Road, Rouse Rd to Mile End - Line RPN6	To service growth in Rouse Hill and Kellyville Ridge suburbs.	3	450	\$3,651
1994-1995	Windsor Road, Merriville to Rouse Rd - Line RPN4	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1,257	600	\$1,529,769
1994-1995	Merriville Road - Line RPN2	To service growth in Rouse Hill and Kellyville Ridge suburbs.	894	600	\$1,087,998
1993-1994	Merriville Road - Line RPN2. Laid 18/08/94	To service growth in Rouse Hill and Kellyville Ridge suburbs.	84	750	\$102,228
1993-1994	Merriville Road - Line RPN2.	To service growth in Rouse Hill and Kellyville Ridge suburbs.	121	750	\$147,257
2002-2003	Green Road Kellyville RW	To service growth in Kellyville and Beaumont Hills suburbs.	52	100	\$1,818
2000-2001	York Rd, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	672	100	\$14,694
2000-2001	Poole Rd, Stage 1 Kellyville (RW)	To service growth in Kellyville and Beaumont Hills suburbs.	77	100	\$10,729
2000-2001	Stage 2 "Outlook" Kellyville RW	To service growth in Kellyville and Beaumont Hills suburbs.	284	100	\$13,651
2000-2001	Lot 202 Wrights Rd Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	411	100	\$43,060
2001-2002	Stg 19 'Dun Craig Est' Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	137	100	\$35,428
2001-2002	Windsor Rd, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	334	100	\$11,684
2002-2003	Green Road Kellyville RW	To service growth in Kellyville and Beaumont Hills suburbs.	40	150	\$1,538
2000-2001	Poole Rd, Stage 1 Kellyville (RW)	To service growth in Kellyville and Beaumont Hills suburbs.	816	150	\$124,806
2000-2001	Stage 2 "Outlook" Kellyville RW	To service growth in Kellyville and Beaumont Hills suburbs.	161	150	\$8,491

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2000-2001	Lot 202 Wrights Rd Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	145	150	\$16,654
2001-2002	Stg19 'Duncraig Est' Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	52	150	\$14,543
2001-2002	Windsor Rd, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	61	150	\$2,325
2000-2001	Poole Rd,Stage1 Kellyville (RW)	To service growth in Kellyville and Beaumont Hills suburbs.	691	200	\$127,660
2000-2001	Stage2 "Outlook" Kellyville RW	To service growth in Kellyville and Beaumont Hills suburbs.	135	200	\$8,586
2001-2002	Stg19 'Duncraig Est' Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	250	200	\$85,145
1999-2000	Windsor Rd, between Poole Rd and off Jackson Pl, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	3	250	\$1,934
2000-2001	Harrington Ave, off Bellemarie Dr, Castle Hill	To service growth in Kellyville and Beaumont Hills suburbs.	8	250	\$5,221
1999-2000	Windsor Rd, between Poole Rd and off Jackson Pl, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	32	250	\$32,660
1994-1995	Poole Rd Extension F/N 2333129	To service growth in Kellyville and Beaumont Hills suburbs.	75	250	\$48,375
1999-2000	Poole Rd now Samantha Riley Dr	To service growth in Kellyville and Beaumont Hills suburbs.	358	250	\$230,910
1999-2000	Windsor Rd, between Poole Rd and off Jackson Pl, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	18	250	\$11,736
2000-2001	Poole Rd,Stage1 KELLYVILLE(RW)	To service growth in Kellyville and Beaumont Hills suburbs.	56	250	\$11,621
2000-2001	Lot 202 Wrights Rd Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	175	250	\$27,026
2000-2001	Harrington Ave, off Bellemarie Dr, Castle Hill	To service growth in Kellyville and Beaumont Hills suburbs.	114	250	\$73,418
2001-2002	Victoria Rd CASTLE HILL	To service growth in Kellyville and Beaumont Hills suburbs.	159	250	\$38,969
2001-2002	Victoria Rd Kellyville-Stage 2	To service growth in Kellyville and Beaumont Hills suburbs.	174	250	\$32,611
2002-2003	Intersection of Samantha Riley and Sanctuary Dr, Beaumont Hills	To service growth in Kellyville and Beaumont Hills suburbs.	33	250	\$21,285
2000-2001	Green Road	To service growth in Kellyville and Beaumont Hills suburbs.	5	300	\$1,798
1993-1994	York Road - Line RK9 160783 160772 160624	To service growth in Kellyville and Beaumont Hills suburbs.	313	300	\$234,437
1993-1994	York Road - Line RK9 160783 160772 160624	To service growth in Kellyville and Beaumont Hills suburbs.	393	300	\$294,357
1995-1996	Poole Rd Extension F/N 2333129	To service growth in Kellyville and Beaumont Hills suburbs.	110	300	\$128,150
2000-2001	Green Road	To service growth in Kellyville and Beaumont Hills suburbs.	26	300	\$30,290
1999-2000	Windsor Rd, between Poole Rd and Samantha Riley Dr, Beaumont Hills	To service growth in Kellyville and Beaumont Hills suburbs.	24	300	\$27,952

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
1994-1995	Poole Road, Foxall to Green Rd - Line RK5	To service growth in Kellyville and Beaumont Hills suburbs.	327	300	\$244,923
1995-1996	Poole Rd Extension F/N 2333129	To service growth in Kellyville and Beaumont Hills suburbs.	1,368	300	\$1,024,632
1997-1998	York Road - Line RK9 160772	To service growth in Kellyville and Beaumont Hills suburbs.	189	300	\$141,561
1999-2000	Windsor Rd, between Poole Rd and off Jackson Pl, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	430	300	\$321,946
1999-2000	Windsor Rd, between Poole Rd and Samantha Riley Dr, Beaumont Hills	To service growth in Kellyville and Beaumont Hills suburbs.	341	300	\$255,657
2000-2001	Green Road	To service growth in Kellyville and Beaumont Hills suburbs.	567	300	\$424,683
2001-2002	Stg19 'Duncraig Est' Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	2	300	\$680
2001-2002	York Rd, off/at Cunningham Pde, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	113	300	\$84,457
2001-2002	York Rd, off Queensbury Ave, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	84	300	\$62,918
1994-1995	Green Road, Poole to Acres - Line RK4	To service growth in Kellyville and Beaumont Hills suburbs.	601	375	\$534,890
2000-2001	President Rd, between York Rd and passed Wildrose St, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	7	450	\$8,868
2000-2001	President Rd, between York Rd and passed Wildrose St, Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	283	450	\$344,276
1999-2000	Poole Rd now Samantha Riley Dr	To service growth in Kellyville and Beaumont Hills suburbs.	22	450	\$36,740
2000-2001	Green Road Kellyville	To service growth in Kellyville and Beaumont Hills suburbs.	45	500	\$84,645
1994-1995	Hezlett and Acres Rd - Line RK6/RK7/RK8 160416 160993	To service growth in Kellyville and Beaumont Hills suburbs.	1,401	600	\$2,947,704
1994-1995	Green Road, Acres to President - Line RK3	To service growth in Kellyville and Beaumont Hills suburbs.	985	600	\$2,072,440
2000-2001	Hezlett and Acres Rd - Line RK6/RK7/RK8 160416 160993	To service growth in Kellyville and Beaumont Hills suburbs.	26	600	\$64,740
1994-1995	President Road - Line RK1/RK2	To service growth in Kellyville and Beaumont Hills suburbs.	886	750	\$2,103,364
2000-2001	President Road - Line RK1/RK2	To service growth in Kellyville and Beaumont Hills suburbs.	57	750	\$173,451
2007-2008	Fyfe Road, Kellyville	To serve growth in Kellyville	269	150	\$11,029
2008-2009	Fyfe Road, Kellyville	To serve growth in Kellyville	21	150	\$6,951
2007-2008	Schofields Rd, Schofields	To serve growth in Second Ponds Creek Area	18	150	\$738
2006-2007	Braemont Ave, Kellyville	To serve growth in Kellyville	37	150	\$1,529

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2007-2008	Fyfe Road, Kellyville	To serve growth in Kellyville	154	150	\$6,314
2008-2009	Fyfe Road, Kellyville	To serve growth in Kellyville	476	150	\$19,516
2008-2009	The Parkway, Kellyville	To serve growth in Kellyville	381	150	\$15,621
2007-2008	Schofields Rd, Schofields	To serve growth in Second Ponds Creek Area	29	200	\$13,195
2007-2008	Schofields Rd, Schofields	To serve growth in Second Ponds Creek Area	2,035	200	\$284,900
2006-2007	Braemont Ave, Kellyville	To serve growth in Kellyville	11	200	\$1,470
2008-2009	The Parkway, Kellyville	To serve growth in Kellyville	305	200	\$42,700
2006-2007	Quakers Hill Parkway, Quakers Hill.	To serve growth in Quakers Hill	27	250	\$5,678
2006-2007	Quakers Hill Parkway , Acacia Gardens	To serve growth in Acacia Gardens	160	250	\$33,320
2007-2008	Torbert Ave, Quakers Hill	To serve growth in Quakers Hill	217	250	\$45,136
2007-2008	Fyfe Road, Kellyville	To serve growth in Kellyville	300	250	\$62,400
2007-2008	Torbert Ave, Quakers Hill	To serve growth in Quakers Hill	35	300	\$10,920
2007-2008	Torbert Ave, Quakers Hill	To serve growth in Quakers Hill	74	375	\$72,964
2007-2008	Torbert Ave, Quakers Hill	To serve growth in Quakers Hill	21	375	\$9,513
2009-2010	Windsor Rd & Fairway Dr, Kellyville	To serve growth in Balmoral Road release area	535	250	\$345,075
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	65	200	\$37,238
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	142	200	\$81,987
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	45	200	\$25,780
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	33	200	\$18,917
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	153	200	\$88,233
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	4	200	\$2,595
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	126	200	\$72,829
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	59	200	\$34,134
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	10	200	\$5,585
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	175	200	\$101,244

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	32	200	\$18,226
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	13	200	\$7,267
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	25	200	\$14,610
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	16	200	\$9,055
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	74	200	\$42,829
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	7	200	\$3,936
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	137	200	\$79,132
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	105	200	\$60,752
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	8	200	\$4,789
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	8	200	\$4,822
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	30	200	\$17,162
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	14	200	\$8,274
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	195	200	\$112,686
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	41	200	\$23,655
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	210	200	\$121,095
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	5	200	\$2,703
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	232	200	\$134,065
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	13	200	\$7,608
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	4	200	\$2,192
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	7	200	\$4,108
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	252	200	\$145,309
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	102	200	\$59,065
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	284	200	\$163,867
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	186	200	\$107,493
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	12	200	\$6,738

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	29	200	\$16,593
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	10	200	\$5,767
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	25	200	\$14,634
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	4	200	\$2,088
2014-15	Reticulation for Parklea North	Reticulation for Parklea North	55	200	\$31,742
2014-15	Reticulation for Parklea North	Reticulation for Parklea North	58	200	\$33,566
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	14	200	\$8,001
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	243	200	\$140,278
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	6	200	\$3,570
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	28	200	\$16,091
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	8	200	\$4,709
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	84	200	\$48,495
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	42	200	\$24,033
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	31	200	\$17,847
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	10	200	\$5,904
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	1	200	\$865
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	1	200	\$865
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	2	200	\$882
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	2	200	\$882
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	57	200	\$33,060
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	7	200	\$3,922
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	2	200	\$1,153
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	16	200	\$14,538
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	3	200	\$3,032
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	42	200	\$37,391

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	11	200	\$9,956
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	12	200	\$10,718
2011-12	Reticulation for Parklea North	Reticulation for Parklea North	37	200	\$32,633
2010-11	Reticulation for Parklea North	Reticulation for Parklea North	7	200	\$6,689
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	28	200	\$25,411
2012-13	Reticulation for Parklea North	Reticulation for Parklea North	4	200	\$3,210
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	18	200	\$16,077
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	5	200	\$4,471
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	6	200	\$5,350
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	9	200	\$8,079
2012-13	Unknown for Kellyville	Unknown for Kellyville	1	200	\$865
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	58	200	\$33,614
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	9	200	\$5,209
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	14	200	\$7,942
2009-10	Reticulation for Kellyville	Reticulation for Kellyville	197	200	\$113,952
2009-10	Reticulation for Kellyville	Reticulation for Kellyville	7	200	\$4,201
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	288	200	\$166,089
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	136	200	\$78,569
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	9	200	\$5,066
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	4	200	\$2,355
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	102	200	\$59,110
2008-09	Reticulation for Kellyville	Reticulation for Kellyville	188	200	\$108,642
2008-09	Reticulation for Kellyville	Reticulation for Kellyville	38	200	\$22,140
2008-09	Reticulation for Kellyville	Reticulation for Kellyville	39	200	\$22,318
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	39	200	\$22,639

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	4	200	\$2,356
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	31	200	\$17,675
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	9	200	\$5,433
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	3	200	\$1,837
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	8	200	\$4,366
2008-09	Reticulation for Parklea North	Reticulation for Parklea North	3	200	\$1,755
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	112	200	\$64,638
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	37	200	\$21,118
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	11	200	\$6,545
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	102	200	\$58,802
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	74	200	\$42,599
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	108	200	\$62,462
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	52	200	\$29,835
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	159	200	\$91,818
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	26	200	\$15,290
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	205	200	\$118,389
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	1	200	\$634
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	1	200	\$634
2010-11	Reticulation for Kellyville	Reticulation for Kellyville	122	200	\$70,381
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	156	200	\$90,049
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	9	200	\$5,335
2011-12	Reticulation for Kellyville	Reticulation for Kellyville	1	200	\$865
2012-13	Reticulation for Parklea	Reticulation for Parklea	44	200	\$25,524
2009-10	Reticulation for Parklea North	Reticulation for Parklea North	1	200	\$707
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	183	200	\$105,469

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	150	200	\$86,523
2012-13	Reticulation for Kellyville	Reticulation for Kellyville	97	200	\$56,027
2010-11	Trunk for Parklea North	Trunk for Parklea North	76	250	\$48,763
2011-12	Trunk for Kellyville	Trunk for Kellyville	3	250	\$2,256
2011-12	Trunk for Kellyville	Trunk for Kellyville	3	250	\$2,257
2008-09	Trunk for Parklea North	Trunk for Parklea North	342	250	\$220,810
2010-11	Trunk for Parklea North	Trunk for Parklea North	297	250	\$191,536
2008-09	Trunk for Parklea North	Trunk for Parklea North	2	250	\$1,611
2008-09	Trunk for Parklea North	Trunk for Parklea North	18	250	\$11,672
2008-09	Trunk for Parklea North	Trunk for Parklea North	3	250	\$1,934
2008-09	Trunk for Parklea North	Trunk for Parklea North	55	250	\$35,708
2008-09	Trunk for Parklea North	Trunk for Parklea North	27	250	\$17,730
2010-11	Trunk for Parklea North	Trunk for Parklea North	55	250	\$35,323
2010-11	Trunk for Parklea North	Trunk for Parklea North	30	250	\$19,406
2010-11	Trunk for Parklea North	Trunk for Parklea North	70	250	\$45,147
2010-11	Trunk for Parklea North	Trunk for Parklea North	7	250	\$4,340
2008-09	Trunk for Parklea North	Trunk for Parklea North	114	250	\$73,720
2008-09	Trunk for Parklea North	Trunk for Parklea North	21	250	\$13,426
2008-09	Trunk for Parklea North	Trunk for Parklea North	1	250	\$967
2008-09	Trunk for Parklea North	Trunk for Parklea North	2	250	\$1,097
2013-14	Trunk for Parklea	Trunk for Parklea	95	250	\$61,040
2013-14	Trunk for Parklea	Trunk for Parklea	20	250	\$13,015
2014-15	Trunk for Kellyville	Trunk for Kellyville	49	250	\$31,629
2014-15	Trunk for Kellyville	Trunk for Kellyville	26	250	\$16,971
2012-13	Trunk for Kellyville	Trunk for Kellyville	65	250	\$41,701

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2010-11	Trunk for Kellyville	Trunk for Kellyville	2	250	\$1,418
2011-12	Trunk for Kellyville	Trunk for Kellyville	59	250	\$37,922
2010-11	Trunk for Parklea North	Trunk for Parklea North	8	250	\$5,393
2011-12	Trunk for Parklea North	Trunk for Parklea North	77	250	\$49,385
2011-12	Trunk for Parklea North	Trunk for Parklea North	2	250	\$1,578
2011-12	Trunk for Parklea North	Trunk for Parklea North	37	250	\$23,968
2011-12	Trunk for Parklea North	Trunk for Parklea North	50	250	\$32,199
2011-12	Trunk for Parklea North	Trunk for Parklea North	69	250	\$44,673
2009-10	Trunk for Parklea North	Trunk for Parklea North	11	250	\$7,286
2009-10	Trunk for Parklea North	Trunk for Parklea North	2	250	\$1,575
2008-09	Trunk for Parklea North	Trunk for Parklea North	73	250	\$46,858
2013-14	Trunk for Parklea	Trunk for Parklea	220	250	\$142,101
2010-11	Trunk for Kellyville	Trunk for Kellyville	42	250	\$42,998
2010-11	Trunk for Kellyville	Trunk for Kellyville	30	250	\$30,977
2010-11	Trunk for Kellyville	Trunk for Kellyville	1	250	\$1,032
2010-11	Trunk for Kellyville	Trunk for Kellyville	2	250	\$2,065
2009-10	Trunk for Kellyville	Trunk for Kellyville	26	250	\$26,969
2008-09	Trunk for Kellyville	Trunk for Kellyville	76	250	\$78,664
2008-09	Trunk for Kellyville	Trunk for Kellyville	8	250	\$8,262
2008-09	Trunk for Kellyville	Trunk for Kellyville	14	250	\$14,835
2011-12	Trunk for Kellyville	Trunk for Kellyville	6	250	\$5,831
2011-12	Trunk for Kellyville	Trunk for Kellyville	16	250	\$16,522
2011-12	Trunk for Parklea	Trunk for Parklea	20	250	\$20,549
2010-11	Trunk for Parklea North	Trunk for Parklea North	10	250	\$10,053
2010-11	Trunk for Parklea North	Trunk for Parklea North	27	250	\$28,397

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2008-09	Trunk for Parklea North	Trunk for Parklea North	24	250	\$24,931
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	4	250	\$4,130
2013-14	Trunk for Kellyville	Trunk for Kellyville	87	250	\$56,400
2013-14	Trunk for Kellyville	Trunk for Kellyville	36	250	\$23,004
2013-14	Trunk for Kellyville	Trunk for Kellyville	61	250	\$39,138
2011-12	Trunk for Parklea North	Trunk for Parklea North	48	250	\$30,904
2011-12	Trunk for Parklea North	Trunk for Parklea North	11	250	\$7,092
2012-13	Trunk for Kellyville	Trunk for Kellyville	4	250	\$2,865
2012-13	Trunk for Kellyville	Trunk for Kellyville	107	250	\$68,990
2013-14	Reticulation for Kellyville	Reticulation for Kellyville	3	250	\$1,934
2012-13	Trunk for Kellyville	Trunk for Kellyville	183	250	\$118,281
2009-10	Trunk for Kellyville	Trunk for Kellyville	290	250	\$187,303
2009-10	Trunk for Kellyville	Trunk for Kellyville	14	250	\$8,978
2011-12	Trunk for Kellyville	Trunk for Kellyville	69	250	\$44,362
2011-12	Trunk for Kellyville	Trunk for Kellyville	5	250	\$3,483
2008-09	Trunk for Kellyville	Trunk for Kellyville	54	250	\$34,952
2009-10	Trunk for Kellyville	Trunk for Kellyville	75	250	\$48,514
2008-09	Trunk for Kellyville	Trunk for Kellyville	2	250	\$1,510
2009-10	Trunk for Parklea North	Trunk for Parklea North	102	250	\$65,497
2009-10	Trunk for Parklea North	Trunk for Parklea North	134	250	\$86,667
2009-10	Trunk for Parklea North	Trunk for Parklea North	9	250	\$5,867
2009-10	Trunk for Parklea North	Trunk for Parklea North	110	250	\$71,246
2009-10	Trunk for Parklea North	Trunk for Parklea North	49	250	\$31,882
2011-12	Trunk for Parklea	Trunk for Parklea	228	250	\$146,910
2011-12	Trunk for Kellyville	Trunk for Kellyville	64	250	\$41,290

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2011-12	Trunk for Kellyville	Trunk for Kellyville	17	250	\$10,770
2011-12	Trunk for Kellyville	Trunk for Kellyville	1	250	\$967
2011-12	Trunk for Kellyville	Trunk for Kellyville	4	250	\$2,561
2011-12	Trunk for Kellyville	Trunk for Kellyville	1	250	\$967
2011-12	Trunk for Parklea	Trunk for Parklea	53	250	\$34,407
2011-12	Trunk for Parklea	Parklea RS449 to Merriville Rd D.V. 750-600-375m	22	250	\$14,206
2011-12	Trunk for Kellyville	Trunk for Kellyville	5	300	\$3,808
2011-12	Trunk for Kellyville	Trunk for Kellyville	181	300	\$135,592
2011-12	Trunk for Kellyville	Trunk for Kellyville	4	300	\$3,295
2011-12	Trunk for Kellyville	Trunk for Kellyville	52	300	\$39,011
2010-11	Trunk for Kellyville	Trunk for Kellyville	4	300	\$2,920
2010-11	Trunk for Kellyville	Trunk for Kellyville	4	300	\$2,920
2011-12	Trunk for Kellyville	Trunk for Kellyville	20	300	\$23,008
2012-13	Trunk for Kellyville	Trunk for Kellyville	6	300	\$7,277
2010-11	Trunk for Kellyville	Trunk for Kellyville	36	300	\$42,153
2010-11	Trunk for Kellyville	Trunk for Kellyville	8	300	\$9,899
2010-11	Trunk for Kellyville	Trunk for Kellyville	3	300	\$4,076
2010-11	Trunk for Kellyville	Trunk for Kellyville	39	300	\$44,999
2010-11	Trunk for Kellyville	Trunk for Kellyville	1	300	\$1,165
2009-10	Trunk for Parklea North	Trunk for Parklea North	25	300	\$29,237
2009-10	Trunk for Parklea North	Trunk for Parklea North	27	300	\$31,441
2012-13	Trunk for Kellyville	Trunk for Kellyville	54	300	\$40,772
2012-13	Trunk for Kellyville	Trunk for Kellyville	10	300	\$7,506
2011-12	Trunk for Kellyville	Trunk for Kellyville	4	300	\$2,995
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	1	300	\$973

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	1	300	\$749
2008-09	Trunk for Parklea North	Trunk for Parklea North	161	300	\$120,722
2009-10	Trunk for Parklea North	Trunk for Parklea North	59	300	\$44,037
2008-09	Trunk for Parklea North	Trunk for Parklea North	108	300	\$81,031
2008-09	Trunk for Parklea North	Trunk for Parklea North	51	300	\$38,112
2008-09	Trunk for Parklea North	Trunk for Parklea North	84	300	\$63,003
2008-09	Trunk for Parklea North	Trunk for Parklea North	35	300	\$26,291
2011-12	Trunk for Kellyville	Trunk for Kellyville	231	375	\$205,379
2011-12	Trunk for Kellyville	Trunk for Kellyville	117	375	\$104,220
2011-12	Trunk for Kellyville	Trunk for Kellyville	21	375	\$18,354
2011-12	Trunk for Kellyville	Trunk for Kellyville	287	375	\$255,790
2011-12	Trunk for Kellyville	Trunk for Kellyville	199	375	\$177,515
2010-11	Trunk for Kellyville	Trunk for Kellyville	188	375	\$167,504
2011-12	Trunk for Kellyville	Trunk for Kellyville	138	375	\$122,915
2011-12	Trunk for Kellyville	Trunk for Kellyville	144	375	\$127,722
2011-12	Trunk for Kellyville	Trunk for Kellyville	13	375	\$11,335
2011-12	Trunk for Kellyville	Trunk for Kellyville	40	375	\$35,383
2010-11	Trunk for Kellyville	Trunk for Kellyville	167	375	\$148,787
2010-11	Trunk for Kellyville	Trunk for Kellyville	92	375	\$82,008
2010-11	Trunk for Kellyville	Trunk for Kellyville	4	375	\$3,558
2010-11	Trunk for Kellyville	Trunk for Kellyville	58	375	\$51,600
2010-11	Trunk for Kellyville	Trunk for Kellyville	5	375	\$4,271
2012-13	Trunk for Parklea North	Trunk for Parklea North	132	375	\$117,762
2012-13	Trunk for Parklea North	Trunk for Parklea North	2	375	\$2,135
2012-13	Trunk for Parklea North	Trunk for Parklea North	21	375	\$19,032

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2012-13	Trunk for Parklea North	Trunk for Parklea North	25	375	\$21,869
2012-13	Trunk for Parklea North	Trunk for Parklea North	37	375	\$32,916
2012-13	Trunk for Parklea North	Trunk for Parklea North	54	375	\$48,081
2012-13	Trunk for Parklea North	Trunk for Parklea North	10	375	\$9,076
2012-13	Trunk for Parklea North	Trunk for Parklea North	187	375	\$166,480
2009-10	Trunk for Parklea North	Trunk for Parklea North	9	375	\$7,588
2009-10	Trunk for Parklea North	Trunk for Parklea North	63	375	\$55,796
2011-12	Trunk for Parklea	Old Windsor Rd to Meurants Lane 450/375mm	29	375	\$25,961
2011-12	Trunk for Kellyville	Trunk for Kellyville	4	375	\$5,320
2009-10	Trunk for Parklea North	Trunk for Parklea North	13	375	\$18,525
2011-12	Trunk for Kellyville	Trunk for Kellyville	2	375	\$2,844
2011-12	Trunk for Kellyville	Trunk for Kellyville	13	375	\$19,203
2010-11	Trunk for Kellyville	Trunk for Kellyville	14	375	\$19,410
2011-12	Trunk for Kellyville	Trunk for Kellyville	11	375	\$15,363
2010-11	Trunk for Kellyville	Trunk for Kellyville	34	375	\$47,794
2012-13	Trunk for Kellyville	Trunk for Kellyville	32	375	\$46,094
2014-15	Reticulation for Parklea North	Reticulation for Parklea North	68	375	\$96,721
2012-13	Trunk for Kellyville	Trunk for Kellyville	157	375	\$139,539
2012-13	Trunk for Kellyville	Trunk for Kellyville	12	375	\$10,334
2012-13	Trunk for Kellyville	Trunk for Kellyville	18	375	\$16,131
2010-11	Trunk for Kellyville	Trunk for Kellyville	147	450	\$178,831
2010-11	Trunk for Kellyville	Trunk for Kellyville	51	450	\$61,739
2010-11	Trunk for Kellyville	Trunk for Kellyville	3	450	\$3,069
2010-11	Trunk for Kellyville	Trunk for Kellyville	2	450	\$3,014
2010-11	Trunk for Kellyville	Trunk for Kellyville	214	450	\$260,339

Commission Year	Description	Purpose	Length (m)	Diameter (mm)	MEERA value included in DSP(\$2014-15)
2010-11	Trunk for Kellyville	Trunk for Kellyville	83	450	\$100,886
2010-11	Trunk for Kellyville	Trunk for Kellyville	3	450	\$3,736
2010-11	Trunk for Kellyville	Trunk for Kellyville	61	450	\$73,674
2010-11	Trunk for Kellyville	Trunk for Kellyville	28	450	\$34,064
2010-11	Trunk for Kellyville	Trunk for Kellyville	135	450	\$164,211
2010-11	Trunk for Kellyville	Trunk for Kellyville	2	450	\$3,042
2010-11	Trunk for Kellyville	Trunk for Kellyville	129	450	\$157,541
2010-11	Trunk for Kellyville	Trunk for Kellyville	1	450	\$1,459
2010-11	Trunk for Kellyville	Trunk for Kellyville	76	450	\$92,153
2010-11	Trunk for Kellyville	Trunk for Kellyville	2	450	\$3,041
2010-11	Trunk for Kellyville	Trunk for Kellyville	78	450	\$129,960
2012-13	Trunk for Kellyville	Trunk for Kellyville	19	450	\$31,063
2010-11	Trunk for Kellyville	Trunk for Kellyville	54	450	\$89,976
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	55	450	\$91,942
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	8	450	\$13,980
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	11	450	\$19,196
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	6	450	\$10,365
2009-10	Trunk for Parklea North	Parklea North RS448 to Mile End Rd 750/600/450mm	3	450	\$5,088
2010-11	Trunk for Kellyville	Trunk for Kellyville	9	500	\$17,801
2010-11	Trunk for Kellyville	Trunk for Kellyville	94	560	\$198,646
2009-10	Trunk for Parklea North	Rouse Hill STP to Parklea RS449 600-450mm	43	600	\$107,426
2009-10	Trunk for Parklea North	Rouse Hill STP to Parklea RS449 600-450mm	7	600	\$18,181
2009-10	Trunk for Parklea North	Rouse Hill STP to Parklea RS449 600-450mm	18	600	\$44,801
2009-10	Trunk for Parklea North	Rouse Hill STP to Parklea RS449 600-450mm	20	600	\$48,664

Pressure Mains

1994-1995	Kellyville Branch of Supply Main - Line R4	To service growth in Kellyville and Beaumont Hills suburbs.	20	250	\$12,900
1994-1995	Kellyville Branch of Supply Main - Line R4	To service growth in Kellyville and Beaumont Hills suburbs.	15	250	\$9,675
1995-1996	Merriville Rd - Line R2 160420	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1,042	375	\$927,380
1994-1995	Kellyville Branch of Supply Main - Line R4 Laid 18/08/94	To service growth in Kellyville and Beaumont Hills suburbs.	362	450	\$440,554
1994-1995	Merriville Rd - Line R2 160420. Laid 18/08/94	To service growth in Rouse Hill and Kellyville Ridge suburbs.	96	450	\$116,832
1995-1996	Norwest Blvd & Old Windsor Rd to Sunnyholt Rd - Line R5 160423 160424 160425	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	3,708	450	\$4,512,636
1995-1996	Kellyville Branch of Supply Main - Line R4 160407 160423	To service growth in Kellyville and Beaumont Hills suburbs.	3,513	450	\$4,275,321
1994-1995	Kellyville Branch of Supply Main - Line R4	To service growth in Kellyville and Beaumont Hills suburbs.	25	450	\$41,750
1993-1994	Norwest Blvd & Old Windsor Rd to Sunnyholt Rd - Line R5 Laid 28/10/93	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	71	600	\$149,384
1994-1995	Old Windsor Rd, Sunnyholt to Merriville - Line R3	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	15	600	\$31,560
1995-1996	STP to Merriville Rd - Line R1 160429	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	4,561	600	\$9,596,344
1995-1996	Old Windsor Rd, Sunnyholt to Merriville - Line R3 160425 160423	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	2,338	600	\$4,919,152
1999-2000	Old Windsor Rd, Sunnyholt to Merriville - Line R3	To service growth in Glenwood, Stanhope Gardens, Parklea, Acacia Gardens, Kellyville, Beaumont Hills, Kellyville Ridge and Rouse Hill suburbs.	59	600	\$146,910

Table A2: Pre-2007 Existing Water Pumping Stations and Water Treatment Plants

Commission Year	Asset Name	Asset Number	Purpose	Pump Configuration	Power (kw)	MEERA value included in DSP (\$2014-15)
1995-1996	Parklea Pumping Station	WP0309	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	1x75, 2x124	323	\$4,339,374
1995-1996	Parklea North Pumping Station	WP0308	To service growth in Rouse Hill and Kellyville Ridge suburbs.	1x85, 2x110	305	\$2,612,367
1995-1996	Kellyville Pumping Station	WP0307	To service growth in Kellyville and Beaumont Hills suburbs.	1x26, 1x80	106	\$1,851,605
1995-1996	Recycled Water Pumping Station	RP0306	To service growth in Kellyville and Beaumont Hills suburbs.	1x110, 2x220	550	\$2,027,087
2001-2002	Recycled Water Treatment Plant					\$330,000
1993-1994	Land acquisition (at WTPP facility)					\$1,547,553
1993-1994	Rechlorination Plant	RX0001	To chlorinate water			\$1,223,222
1993-1994	Rechlorination Plant	RX0002	To chlorinate water			\$1,223,222
1993-1994	Rechlorination Plant	RX0003	To chlorinate water			\$1,223,222

Table A3: Existing Reservoirs

Commission Year	Reservoir Name	Reservoir Number	Purpose	Type	Size (MI)	MEERA value included in DSP (\$2014-15)
1993-1994	Kellyville RS0447	RS0447	To service growth in Kellyville and Beaumont Hills suburbs.	Elevated	2	\$2,595,167
1992-1993	Parklea North RS0448	RS0448	To service growth in Rouse Hill and Kellyville Ridge suburbs.	Elevated	2	\$2,595,167
1993-1994	Parklea RS0449	RS0449	To service growth in Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	Elevated	2	\$2,595,167
1995-1996	Recycled Water Storage Tank including 0.44 MI		To service growth in Rouse Hill, Kellyville Ridge, Kellyville, Beaumont Hills, Parklea, Glenwood, Stanhope and Acacia Gardens suburbs.	Surface	1.25	\$1,160,000

Table A4: Post 2007 Existing Recycled Water Treatment Plant Works and Pumping Stations

Commission Year	Asset Name	Asset Number	Purpose	Type	Size	DSP Cost (\$2014-15)
2007-2008	UV system		Upgrade of recycled water treatment facility			\$3,070,000
2007-2008	Super chlorination tank		Upgrade of recycled water treatment facility			\$2,150,000
2007-2008	R.W storage		Upgrade of recycled water treatment facility	In Ground	6MI	\$1,670,000
2007-2008	Modification to R.W transfer pump		Upgrade of recycled water treatment facility			\$1,200,000
2007-2008	Pumping station upgrade	RP0306	To service growth in Rouse Hill			\$4,200,000

