

# WATER TECHNICAL DEPONDT

# FOR

# DEVELOPMENT SERVICING PLAN

**May 2005** 

#### **FORWARD**

This document has been prepared by Singleton Councils Water and Waste Section, and of necessity, some assumptions have been made about candidate new development areas in the Singleton Local Government Area.

Some of these candidate areas are currently the subject of applications for rezoning, whilst others are not.

It is emphasized that this report is not recommending any specific or additional areas for development.

Water and Sewer supply availability is subject to a number of changing circumstances, and is in any case conditional upon a separate planning and development assessment.

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#### 1. INTRODUCTION

This report collates and presents the following information relating to the Singleton Local Government Area:

- population and lot projections
- standards of service and design parameters
- design parameters used
- design calculation for planned assets
- assets for which Council proposes the Developers pay a share, and their capacity
- capital works programs
- references

This information has been used to plan infrastructure needs to service the township of Singleton, including adjacent specific developmental areas and villages.

With reference to Plan 1 (Water – Future and Existing Assets which Council Proposes the Developers Pay a Share), the areas already serviced and/or those under consideration for future water supply services in the township of Singleton include the following:

- Retreat Estate (east of Bridgman Road and north of Bridgman Ridge)
- Pinnacle Estate (north of Singleton Heights, west of Bridgman Road)
- Singleton Heights Upper Zone (northern part of Singleton heights, west of Bridgman Road)
- Singleton Heights Middle Zone (southern part of Singleton heights, west of  $\triangleright$ Bridgman Road and the Hunter River)
- Maison Dieu Rural Residential and Industrial Estate (west of New England Highway and north of Hunter River)
- Gowrie Gates (west of New England Highway and just north of Hunter River)
- Hunterview Estate (east of Bridgman Road and north of Hunter River)
- Singleton Town Lower Zone (old part of town consisting of Town West, Town East and Town Infill (east of Town East))
- Bridgman Ridge (north of Hunterview Estate and east of Bridgman Road)

Other areas (including villages) already serviced and/or considered to be serviced with water supply, and not shown on Plan 1, includes the following:

- Gresford Road Sub Area (approximately 5m east-north-east of Singleton Town)
- Singleton Army Base (approximately 6 km south of Singleton Town)
- Mount Thorley Industrial Estate (approximately 12 km south-west of Singleton Town)
- Broke Village (approximately 24 km south-south-west of Singleton Town)
- Bulga Village (approximately 21 km south-west of Singleton Town)
- Camberwell Village (approximately 14 km north-west of Singleton Town)
- Jerrys Plains (approximately 30 km west of Singleton Town)

This report provides the technical background and calculations for the preparation of the Development Servicing Plan (DSP) for Singleton, including the villages. For the township of Singleton and its immediate vicinity, the existing and future water assets which Council proposes the developers pay a share are shown on Plan 1.

In this report, irrespective of the documents that are referenced, all the cost figures are adjusted to June 2004 by the movements in the Construction Cost Index.

#### 2. POPULATION AND LOT PROJECTIONS

Development in the township of Singleton has been widespread and the rate of development in lot numbers can vary from area to area.

Table 1 (Existing and Future Lots and ETs (Water)) shows the existing and/or potential future lots that can be created within each area.

With reference to the section in this report titled "Information on Population and Dwelling", the lot (or dwelling) increment figure for census years 1996 and 2001 (provided by the Hunter Valley Research Foundation) indicates that the average increase in lot numbers for the whole of Singleton is 0.71% per annum. This report adopts a growth in allotment number of 1.0% per annum over the whole planning period to 2032/2033.

Based on the information from the Hunter Valley Research Foundation, it has been assumed that the average dwelling occupancy ratios range from 2.7 (minimum) to 2.9 (maximum) persons per dwelling (or lot).

For the purposes of supplying lot (or total dwelling) projection information for use in the DSP for Singleton, figures in both Table 2 (Lot Takeup (ET) – Water 2% 1% 0.5% - 050329) and Table 3 (Lot Takeup (ET) – Water – Army and Standpipe) have been derived from the adopted 1.0% per annum allotment growth rate.

For the purposes of the Development Servicing Plan, calculations only, and in the absence of more accurate information, each lot created will be considered to place a demand on Council's water supply system equivalent to one Equivalent Tenement (ET).

Applications for development other than a single residence will however be assessed on a dwelling equivalent occupancy basis. Council has adopted for this purpose, the use of "Section 64 Determination of Equivalent Tenements Guidelines (Water Directorate January 2005)".

Where the assessed equivalent occupancy is greater than 1 ET, a contribution will be sought for the additional demand.

#### 3. STANDARDS OF SERVICE AND DESIGN PARAMETERS

# 3.1 Water Quality

Water Quality at least meets the drinking water quality guidelines in Australia, published by the National Health & Medical Research Council (NHMRC, 1996 edition) and the Australian Resources Council.

#### 3.2 Standards of Service for Water

This Plan has been prepared using the standards in Councils "Strategic Business Plan for Water Supply 1998/99". Copies of this business plan are available on request.

### 3.3 Water Design Parameters

These are generally in accord with the Public Works Department's Water Supply Investigation Manual, however, there has been some reduction in instantaneous flow requirements (litres per second) in some circumstances in order to take into account current lower levels of outdoor water usage in peak hot weather.

The parameters are treated in more detail in Section 4.

#### 4. DESIGN PARAMETERS USED

# 4.1 Water Supply Headworks

Design parameters relating to water supply headworks are as detailed in the Public Works Department's Design Guidelines for Water Supply Schemes as follows:

- Restrictions on supply should not be necessary more than once every 10 years on average and should not last, in total, for more than 5% of the time.
- The system should be able to supply 80% of the unrestricted demand through a repeat of the worst recorded drought starting at the time restrictions are first applied.

#### 4.2 Service Reservoirs

Generally designed to provide a volume of one peak day's demand, ie 4000 litres per tenement per day. Some reduction in this requirement can be adopted where computer modelling shows that an entire storage and distribution system functions satisfactorily.

# 4.3 Pipelines

All trunk mains are designed using computer modelling of Singletons entire water transport and storage network. (Pipes ++ computer model used).

# 4.4 Pumping Stations

These are normally designed to deliver the required transfer capacity over a period of 20 hours. Full standby pumping capacity is normally provided to ensure continuity of supply. In supply critical locations, emergency generator backup of power systems is allowed for.

# 4.5 Pipe Size and Class

The smallest pipe size which satisfactorily allows for fire fighting flows in residential areas is 100 mm. In commercial areas, a minimum of 150 mm is used. The minimum pipe classes used are as follows:

Pipe Material	Pipe Diameter and Class			
	100 mm	150 mm	200 mm	

PVC family	Class 16	Class 16	Class 16
Ductile Iron	'K9'	'K9'	'K9'

#### 4.6 Reticulation Pressures

Reticulation systems are designed to supply the peak instantaneous demand by gravity while maintaining a minimum head of 12 m throughout the system. For streets with buildings well above the street level, increased head should be made available where this can be provided without large additional costs.

The desirable maximum head is 60 m, maximum allowable 120 m and normal acceptable maximum 90 m depending on cost of zoning.

During fire flow analysis, desirable residual pressure allowed is to be 12 metres, whilst ensuring pressure at least remains positive at lowest pressure areas of the reticulation system.

#### 4.7 Water Demands

Singletons Water Reticulation networks are designed with the use of computer modelling to establish pipe sizing required for normal domestic demands.

Hot weather medium peak diurnal flow patterns, using a daily demand per ET of 4,000 litres, are used. The maximum demand averaged over 30 minutes, used in this specific model case is equal to 0.09 litres per second.

For practical purposes, a minimum fire flow of 12 litres per second (residential) and 18 litres per second (commercial and industry) is allowed for, whilst instantaneous demand remains at 0.1 litres per second. Checks are done for all demand nodes in the reticulation system. Positive residual heads are to be maintained throughout the system, with a target of 12 metres residual head where it can be obtained.

#### 4.8 Service Reservoirs

Initially design for total storage of 1 peak day demand. This will consist of 30% for working capacity and 70% for reserve storage. Computer modelling of total water transport and storage systems is also carried out to ensure predicted system operation is satisfactory. This may then result in modifications of the reservoir design to obtain optimum performance and reliability.

# 4.9 Pump Design

Peak daily demand is to be conveyed over a 20 hour period. Fully redundant backup capacity is required, to ensure demands can be met when one pump is not in operation. Computer modelling of full system is carried out to optimise design.

# 4.10 Water Treatment Plant

Is designed to meet peak daily demand of 4,000 litres per ET.

#### 5. DESIGN CALCULATIONS FOR PLANNED ASSETS

#### 5.1 Lot and ET Yields

Existing and Future Lots and ETs	Lot	ET
Retreat Estate	483	483
(includes East of Retreat)	(50)	(50)
Pinnacle Estate	500	500
Singleton Heights Upper Zone	707	707
Singleton Heights Middle Zone	1028	1028
Maison Dieu Industrial Estate	381	371
Gowrie Gates Development	550	550
Hunterview Estate	900	900
Singleton Town Lower Zone	3051	3051
(includes Town West	(1435)	(1435)
Town East	(1516)	(1516)
Town Infill)	`(100) <sup>′</sup>	(100)
Gresford Road Sub Area	150	150
Bridgman Ridge	800	800
Mount Thorley	90	139
Broke	157	157
Bulga	44	44
Camberwell	73	73
Singleton Army Base	625	625

# 5.2 Reservoir to Serve Bridgman Ridge, Hunterview Estate and Nearby Areas

A deficiency in storage capacity has been identified in this general area for some time. The servicing strategy identified as most suitable for technical and financial reasons has been to adjust existing pressure zoning for the above area, to allow supply from Singletons Upper Pressure Zone, rather than the existing middle pressure zone.

Whilst additional storage of 6.8 Megalitres was the starting point for design of this additional reservoir, computer network modelling indicates that a reservoir of 5.0 Megalitres capacity with associated control valving for pressure zoning works will operate satisfactorily.

# 5.3 Glennies Creek Dam Booster Pump Station and Associated Balance Tank at Water Treatment Plant

Singletons water treatment plant is directly connected via pipeline to the outlet works of Glennies Creek Dam. Whilst water at most times can be transported to the towns treatment plant under gravity, at Dam levels in the vicinity of 30% and lower, a booster pump station will be required to transport this water to Singleton.

Computer Hydraulic modelling has been used to establish that a pump station with a capacity of 379 litres per second at 70 metres of Head, delivering water to a 0.5 Megalitre balance tank nearby to, and above Singletons water treatment plant is required.

#### 5.4 Retreat Estate Water Mains

All trunk mains in this contribution plan were designed and identified in Councils Development Servicing Plan for Retreat Estate – July 1996". This Plan can be made available upon request.

Recent computer hydraulic modelling of built infrastructure for this supply area has confirmed that the original design concept remains sound, whilst establishing there is adequate capacity for 483 ET (total), a slight reduction on the 501 ET allowed for in the original contribution plan.

#### 5.5 Pinnacle Estate Water Mains

Trunk mains falling within this subdivision have been designed by computer hydraulic modelling, with the proposed future 200 mm diameter main required to complete full servicing flows and operating pressures for this sub area.

#### 5.6 Maison Dieu Industrial Area Water Mains

Water demands and fire flows were designed for 381 lots.

Hydraulic computer modelling has shown that without the provision of an additional amplification main leading into this water supply area, normal operational supply pressures drop below the desirable minimum pressure of 20 metres. In addition, fire flows would result in negative reticulation pressures at elevations approaching 115 metre AHD, which is unacceptable.

Provision of an additional 150 mm diameter main 1697 metres long leading from the supply reservoir to the industrially zoned land in this supply area will improve operational residual pressures, and maintain positive pressure during fire flows, for land at or lower than 115 metres AHD.

Hydraulic modelling has also indicated the need for a relocation of the pressure boosting pumps feeding this supply area reservoir (higher demands will produce unacceptable reservoir draw down from the currently used Gowrie Reservoir). A 150 mm diameter main, 450 metres in length will be required to be constructed, linking the alternative McDougalls Hill Reservoir to this supply area, via an alternative booster pump system.

#### 5.7 Gowrie Gates Water Mains

Provision has been made for internal trunk mains to service this area only.

A combination of 150 mm mains, 300 metres in length, and 200 mm mains, 1000 metres in length have been found by computer modelling to be sufficient fro this purpose, whilst ensuring operational and fire fighting pressures and flow are satisfactory.

#### 5.8 Gresford Road Water Mains and Tank

Provision has been made for limited supply of water to this area only, with infrastructure identified in the plan being the minimum to supply a tank top up, low pressure delivery system.

# 6. ASSETS FOR WHICH COUNCIL PROPOSES THE DEVELOPERS PAY A SHARE, AND THEIR CAPACITY

# 6.1 Water Supply Areas

With reference to Tables 1, 2 and 3 and Plan 1, the areas already serviced and/or under consideration for future water supply are as listed in the Introduction of this report.

### 6.2 Existing Reservoirs and their Water Supply Areas

As shown on Plan 1, Singleton Town and its immediate vicinity are serviced by six (6) water storage reservoirs. Singleton Army Base, Mount Thorley Industrial Estate and the villages have additional water reservoirs. The areas serviced by reservoirs are also shown on Plan 1, as follows:

pplies treated water to all the areas except the ge of Jerrys Plains
supply treated water to all areas except reat Estate, Singleton Heights Upper Zone, terview Estate and the village of Jerrys Plains
upplies treated water to all the areas except reat Estate, Singleton Heights Upper Zone, terview Estate and the village of Jerrys Plains
pplies treated water to Retreat Estate upplies treated water to Maison Dieu Industrial ate

Other water storage reservoirs and their water supply areas, not shown on Plan 1, are as follows:

Mount Thorley Reservoir	- it supplies treated water piped from Singleton to Mount Thorley Industrial Estate and the villages of
Jerrys Plains Reservoir	Broke and Bulga - it supplies treated water to the village of Jerrys Plains

# 6.3 Future Reservoirs and their Water Supply Areas

Future water storage reservoirs shown on Plan 1 are as follows:

Hunterview Reservoir - it supplies treated water (together with Rixs Creek Reservoir) to all the areas except the village of Jerrys Plains

Future water storage reservoirs not shown on Plan 1 are as follows:

Gresford Road Reservoir - it supplies treated water (obtained from

McDougalls Hill and Gowrie Reservoirs) to

Gresford Road Sub Area

Broke Reservoir - it supplies treated water (obtained from Singleton

through Mount Thorley Reservoir) to the village of

**Broke** 

Jerrys Plains Reservoir - it supplies treated water to the village of Jerrys

**Plains** 

### 6.4 Assets, Capacities, Timing and Costs

Both the existing and future Assets for which Council proposes the developers pay a share are either shown on Plan 1 and/or Table 4 (Water Assets – Existing and Future).

Existing assets consist of the following:

- > 150 mm diameter distribution mains
- > 200 mm diameter distribution mains
- > 250 mm diameter distribution mains
- > 300 mm diameter distribution mains
- 375 mm diameter distribution/trunk mains
- 400 mm diameter distribution/trunk mains
- 450 mm diameter distribution/trunk mains
- 600 mm diameter trunk mains
- WTP (Water Treatment Plant)
- storage reservoirs/tanks
- CV (Control Valves)
- booster pump stations

Future assets consist of the following:

- storage reservoirs/tanks
- booster pump stations
- CV (Control Valves)
- > 150 mm diameter distribution mains
- > 200 mm diameter distribution mains
- 250 mm diameter distribution mains
- 375 mm diameter distribution mains
- > 450 mm diameter trunk mains
- > 50 mm outer diameter poly distribution mains
- > 63 mm outer diameter poly feeder mains
- > 75 mm outer diameter poly distribution mains

Also shown on Plan 1 are various groups of existing and proposed water main assets needed to supply water to the following areas:

Type 1

 existing trunk/distribution water mains required to supply raw water to the water treatment plant and

	treated water to all the areas except the village of Jerrys Plains
Type 2	- existing distribution water mains required to supply treated water to their own individual areas
Type 3	<ul> <li>existing trunk/distribution water mains required to supply treated water to all the areas except Retreat Estate, Singleton Heights Upper Zone, Hunterview Estate and the village of Jerrys Plains.</li> </ul>
Type 4	- existing distribution water mains required to supply treated water to more than one individual area
Type 5	<ul> <li>existing distribution water mains required to supply treated water to Mount Thorley Industrial Estate and, in the future, to the villages of Broke and Bulga</li> </ul>
Type 6	<ul> <li>proposed distribution water mains which will be required to deliver treated water to the proposed Hunterview Reservoir which will supply treated water (with Rixs Creek Reservoir) to all the areas except the village of Jerrys Plains</li> </ul>
Type 7	<ul> <li>proposed distribution water mains which will be required to supply treated water to their own individual areas</li> </ul>
Type 8	<ul> <li>proposed distribution water mains which will be required to supply treated water to more than one individual area</li> </ul>

The capacity of each asset listed under a water supply area(s) heading on Table 4 relates to the ultimate allotment growth of the area(s). thus, an asset may be shared by more than one area.

The replacement cost of each existing asset is based on the reference rate from the NSW Reference Rates Manual (June 2003). To bring the replacement cost to June 2004, a CPI increase of 3% pa has been assumed. (Movements in the Construction Cost Index are not used any more as the Australian Bureau of Statistics has stopped its publication on movements in "Price Index of Materials Used in Building other than House Building". Similarly, the construction cost of any future asset is also based on the reference rate, plus 3% (in 2004 dollars).

Table 4 shows the year of construction of each existing asset. It also shows the target date(s) for the construction of each future asset. Where a future asset is to be constructed over more than one (1) year, its construction cost will be evenly distributed over the time land development is assumed to take place.

#### 7. CAPITAL WORKS PROGRAMS

Table 5 presents a summary of the capital works programs for the water supply systems (in the township of Singleton including its immediate vicinity and villages) for which Council proposes Developers pay a share through the DSP (Development Servicing Plan) for Singleton.

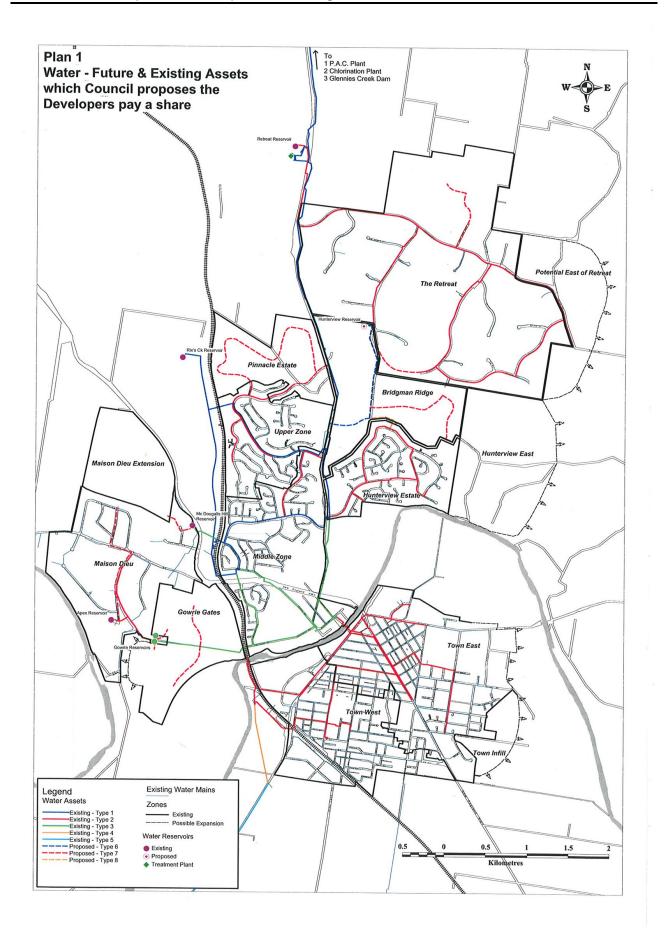
Any other assets required will be the responsibility of the individual developer to provide for the development. This includes water storage reservoirs/tanks, water booster pump stations and water distribution/reticulation mains.

The timing for construction of any future work is indicative only. The provision of any item will be dependent on the rate of development and the threshold criteria established for the need.

#### 8. REFERENCES

- Ministry of Energy and Utilities "NSW Reference Rates Manual for Valuation of Water Supply, Sewerage and Stormwater Assets (June 2003)"
- Australian Bureau of Statistics No 6407.0 Price Index of Materials Used in Building other than House Building
- NSW Department of Public Works and Services (DPWS) Report No WE98103R March 1999 – Singleton Water Supply and Sewerage Schemes – Assessment of Population, Water Demands and Sewage Loadings
- NSW Department of Public Works Water Supply Investigation Manual (Amended February 1990)
- Singleton Council "Strategic Business Plan for Water Supply (1998/99)"
- Singleton Council Standard Policy for Water Supply
- ➤ Singleton Council Databases for Single Water Assets
- Singleton Council Development Servicing Plan for Retreat Estate (July 1996)
- Rust PPK Environment and Infrastructure Singleton Water Supply Study (February 1997) "Model Study".
- NSW Water Directorate January 2005 Section 64 Determination of Equivalent Tenements Guidelines
- B Carter and B Sim "Pipes++" analysis in pipes modelling for Singleton Councils "Development Servicing Plan for Singleton (July 2005)".

Water Technical Report for Development Servicing Plan					
	PLAN FOR WATER AS	SETS			



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	INFORMATION ON POPULATION AND DWELLINGS	

# Singleton – Population and Dwelling Profile 1991 – 1996 – 2001

	Total Population	Private Dwellings		Non private	Total dwellings	Average C Ra	
		Occupied	Unoccupied	dwellings		Max	Min
1991	11,861						
1996	12,519	4,356	231	25	4,612	2.9	2.9
2001	12,170	4,503	252	21	4,776	2.7	2.7

### Calculation

	Total Population	Average Pop Change pa (%)	Total Dwelling	Average Dwe Change pa (%)
1991	11,861			
1996	12,519	1.11	4,612	
2001	12,170	-0.56	4,776	0.71

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#### DWELLING CHARACTERISTICS continued

Property		r.	Occupied	Unoccupied	Non-	
URBAN CENTRE/LOCALITY conf.  NEW SOUTH WALES conf. 2001 conf.  Safety Beach (L)  St Georges Basin-Sanctusy Point  Salamander Bay-Soldiers Foint  Sandy Beach  Soone  1 6817 144 13 1.994  Scotts Head (L) 351, 125 - 477  Sosham (L) 1.00 5 - 1.25  Shoolhaven Heads  Slivervater (L) 275 83 - 338  Sinjeston  Sinjeston  4 503 822 21 4 775  Sinjeston  Sinjeston  Sinjeston  4 503 822 21 4 775  South Most Rooks  Sinjeston  Sinjeston  Sinjeston  Sinjeston  4 503 822 21 4 775  South West Rooks  Sunth Most Rooks  Sunth West Rooks  South West Ro				private	private	Total
NEW SOUTH WALES cont.	Geographic area		dweilings	dwellings	dwellings	dwellings
NEW SOUTH WALES cont.		377400886			0 7 8 6 A A A A 4	4 5 6 8 21
NEW SOUTH WALES cont.						
2001.conf.   Safety Beach (L)   St. Georges Basin-Sanctuery Point   3 213   1139     4 401   Salamender Bay-Soldiers Point   2 130   656     2 766   San Isitore (L)   104   6     110   Sandy Beach   5377   413   6   6   796   Savtell   5371   413   6   6   796   Savtell   351   126   3   477   Seaham (L)   120   5     125   Shoilhaven Heads   1 267   281     1 548   Shivenvater (L)   275   83     358   Shivenvater (L)   338   226   3   506   South Work-Gledstone (L)   338   226   3   506   South Work-Gledstone (L)   338   226   3   506   South Work-Gledstone (L)   386   27   3   416   South Work-Gledstone (L)   386   27   3   426   Stanwell Park   435   56   3   494   Stanwell Park   435   56   3   494   Stanwell Park   435   56   3   494   Stanwell Tops (L)   155   7   162   Stocklinbingel (L)   94   11     105   Stroud (L)   250   27   3   200   Stuarts Point (L)   352   63     415   Suffolk Park   1312   116     142   Suffolk Park   1312   116     142   Sussex Infect   1389   601   5   2085   Sutton (L)   90   4     94   14     105   Stroud (L)   90   4     94   14     105   Suffolk Park   1312   116     142   Sussex Infect   1389   601   5   2085   Sutton (L)   90   4     94   14     15   16     96	Ŭ	( a / ( ) C   ( )	((L) B 0 0 ((L))			
2001.conf.   Safety Beach (L)   St. Georges Basin-Sanctuery Point   3 213   1139     4 401   Salamender Bay-Soldiers Point   2 130   656     2 766   San Isitore (L)   104   6     110   Sandy Beach   5377   413   6   6   796   Savtell   5371   413   6   6   796   Savtell   351   126   3   477   Seaham (L)   120   5     125   Shoilhaven Heads   1 267   281     1 548   Shivenvater (L)   275   83     358   Shivenvater (L)   338   226   3   506   South Work-Gledstone (L)   338   226   3   506   South Work-Gledstone (L)   338   226   3   506   South Work-Gledstone (L)   386   27   3   416   South Work-Gledstone (L)   386   27   3   426   Stanwell Park   435   56   3   494   Stanwell Park   435   56   3   494   Stanwell Park   435   56   3   494   Stanwell Tops (L)   155   7   162   Stocklinbingel (L)   94   11     105   Stroud (L)   250   27   3   200   Stuarts Point (L)   352   63     415   Suffolk Park   1312   116     142   Suffolk Park   1312   116     142   Sussex Infect   1389   601   5   2085   Sutton (L)   90   4     94   14     105   Stroud (L)   90   4     94   14     105   Suffolk Park   1312   116     142   Sussex Infect   1389   601   5   2085   Sutton (L)   90   4     94   14     15   16     96	NEW SOUTH WALES CORL					
Safety Beach (L)				•		
Site Security Point Selamunder Bay-Soldiers Folnt 2 130 656 — 2 766 San Islidore (L) 104 6 — 110 Sandy Beach 682 577 413 6 5 768 Sawtell 5 377 413 6 5 768 Sawtell 120 5 — 125 Sawtell 120 5 — 125 Sawtell 120 5 — 125 Soldiers Folnt 120 5 — 125 Shoelhaven Heads 1207 281 — 1548 Silvenvater (L) 275 83 — 358 Silvenvater (L) 326 3 — 358 Silvenvater (L) 386 27 3 46 Soldiers Beach 560 98 — 358 South West Rooks 1814 452 4 2 270 Springs Hill (L) 98 4 — 100 Stanwell Park 435 56 3 494 Stanwell Park 120 250 27 3 200 Stuars Point (L) 352 63 — 415 Surfolk Park 121 16 — 1 426 Surshine (L) 352 63 — 415 Surfolk Park 121 16 — 1 426 Surshine (L) 352 63 — 415 Sutron (L) 350 570 7 — 162 Stockholingal (L) 352 63 — 415 Surfolk Park 124 16 — 1 426 Surshine (L) 352 63 — 415 Surfolk Park 124 16 — 1 426 Surshine (L) 352 63 — 415 Surfolk Park 124 16 — 1 426 Surshine (L) 353 61 3 217 Sussex Inter 1 389 691 5 2085 Sutton (L) 96 — 94 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			216	15		231
Salamander Bay-Soldiers Folnt San Isitiore (L) San Isitiore (L) Sandy Beach Savtell Savtell Sandy Beach Savtell Sa		n Point				
San Isidore (L) Sandy Brach Scotts Head (L) Sand Sandy Brach Sandy						2 786
Sandy Beach Sawtell Sawtell Sawtell Savene Scotts Head (L) Scotts Head (L) Sesham (L) Sesham (L) Sesham (L) Sesham (L) Sesham (L) Sesham (L) Silvenwater (L) Singleton Smifts Liske (L) Singleton Sing				6	_	110
Sawtell   5 377			832	57		689
Scorts   Head (L)   351   126     417   Sepham (L)   120   5     415   Shoalhaven Heads   1 267   281     1.548   Silvenvater (L)   275   83     358   Silvenvater (L)   386   275   3   556   Smithtown-Gladstone (L)   386   27   3   416   South Golden Beach   560   98     658   South West Rocks   1 514   452   4   2 270   Spring Hill (L)   98   4     102   Stanwell Park   435   56   3   494   Stanwell Park   435   56   3   495   Stockhibnigel (L)   352   63     415   435   Stockhibnigel (L)   352   63     415   Suffolk Park   1 312   116     1428   Sursishine (L)   352   63     415   Suffolk Park   1 312   116     1428   Sursishine (L)   158   61   3   217   Subsex Inlet   1 389   691   5   2085   Sutton (L)   90   4     94   428   Surton (L)   90   4     94   428   Surton (L)   90   4     94   428   Surton (L)   96     96   96     96   96   96				413	6	5 796
Sexts Head (L)			1 617	164	13	1,994
Shoelhaven Heads   1 267			351	126	_	
Silverwater (L)					_	
Singleton	Shoalhaven Heads				_	
Smith Lake (L)					_	
Smithtown-Gladstone (L)   South Golden Beach   500   98     059   South Mest Rocks   1814   452   4   2 270   Spring Hill (L)   98   4     102   Stanwell Park   435   56   3   494   Stanwell Tops (L)   155   7     162   Stockhibingal (L)   94   11     105   Stockhibingal (L)   94   11     105   Stuarts Point (L)   352   63     415   Suffolk Park   1312   116     142   Suffolk Park   1312   116     142   Sussex Inlet   1389   691   5   2 085   Sutton (L)   90   4     94   Sydney   1256 732   85 143   2 343   1344   218   Tahmoor   1464   88     1552   Tarmworth   12 489   967   59   13 515   Tapritalles (L)   98     98   7   7   7   7   7   7   7   7   7		unun sea arunn alle et euronomianheith :				
South Golden Beach   South West Rocks   1814   452   4   2270						
South West Rocks  Spring Hill (L)  Sprin						
Spring Hill (L)						
Starwell Park   155   7						
Starwell Tops (L)				SS	3	
StockInbingel (L)   Stroud (L)   250   27   3   230						
Stroud (L)         250         27         3         280           Sturats Point (L)         352         63         —         415           Surfshine (L)         153         61         3         217           Sussex Inler         1389         691         5         2085           Sutton (L)         90         4         —         94           Sydney         1266 732         85 143         2 243         1344 218           Tahmoor         1 464         88         —         1 552           Telpingo (L)         118         162         2         283           Tamworth         12 489         967         59         13 545           Tepitallee (L)         96         —         —         96           Yaralga (L)         11,9         28         3         150           Tartutta (L)         94         11         5         1,0           Taree         6 685         577         34         7 299           Tarraganda (L)         83         6         —         89           Tartha         703         171         3         677           Tea Gordens         599         209					_	
Stuarts Point (L)         352         63         —         415           Surffolk Park         1.312         116         —         1.428           Surffolk Park         1.352         61         3         217           Sussex Inlex         1.389         691         5         2.085           Sutton (L)         90         4         —         94           Sydney         1.250732         85 143         2.243         1344 218           Tahmoor         1.464         88         —         1.552           Telbingo (L)         1.13         162         3         283           Tamworth         12 489         967         59         1.3 545           Tapitalloe (L)         96         —         —         96           Yaralga (L)         11.9         28         3         150           Tarreaganda (L)         83         5         —         89           Tarreganda (L)         83         6         —         89           Tarreganda (L)         83         6         —         89           Tarreganda (L)         83         6         —         89           Tarreganda (L)         83			250	27	3	230
Sunshine (L)         153         61         3         217           Sussex Inlect         1 389         691         5         2 085           Sutton (L)         90         4         —         94           Sydney         1 256 732         35 143         2 343         1 344 218           Tahmoor         1 464         88         —         1 552           Telpingo (L)         118         162         2         283           Tamworth         12 489         967         59         13 515           Tapitallos (L)         96         —         —         96           Tarrigalos (L)         94         11         5         110           Taree         6 688         577         34         7 299           Tarreganda (L)         83         6         —         89           Tarthra         703         171         3         677           Targanda (L)         83         6         —         89           Tarthra         703         171         3         677           Targanda (L)         83         16         —         89           Tarthra         703         171         3<			352	63	_	415
Sussex Inlex   1389   691   5   2085   Sutton (L)   90   4			1.312	116		1 428
Sutton (L)         90         4         —         94           Sydney         1256 732         85 143         2 343         1 344 218           Tahmoor         1484         88         —         1 552           Telbingo (L)         118         162         3         283           Tarmworth         12 489         967         59         13 515           Tepitalloe (L)         96         —         —         96           Tarralge (L)         11.9         28         3         150           Tarcutta (L)         94         11         5         110           Taree         0 658         577         34         7 299           Tarragganda (L)         83         6         —         89           Tathra         703         171         3         677           Tea Gordens         5599         209         3         811           Ternora         1 643         183         13         1539           Tenterfield         1 304         1.67         17         1 508           The Rock (L)         321         33         —         354           Thirmere         902         36	Sunshine (L)					
Sydney         1 256 732         35 143         2 343         1 344 218           Tahmoor         1 464         88         —         1 552           Telbingo (L)         118         162         3         283           Tarmworth         12 489         967         59         13 515           Tapitalloe (L)         96         —         —         96           Yaralga (L)         94         11         5         1,10           Taree         6 688         577         34         7 299           Tarraganda (L)         83         6         —         89           Tarthra         703         171         3         677           Tea Gordens         599         209         3         811           Ternora         1 643         183         13         1,639           Tenterfield         1 304         187         17         1 508           The Rock (L)         321         33         —         354           Thirdmere         802         36         —         936           Thredbo Village         451         44         60         555           Tingha (L)         250         31 <td></td> <td></td> <td></td> <td></td> <td>5</td> <td></td>					5	
Tahmoor					100000000000000000000000000000000000000	
Telbingo (L) 118 152 3 283 Tarrworth 12 489 967 59 13 515 Tarpitallos (L) 96 — 96 Taralgo (L) 11,9 28 3 150 Tarcutta (L) 94 11 5 1.0 Tarce 688 577 34 7 299 Tarragganda (L) 83 6 6 — 89 Tathra 703 171 3 877 Tea Gardens 599 209 3 811 Ternora 1 643 183 13 1, 639 Tenterfield 1 304 187 17 1 508 The Oaks 504 15 — 519 The Rock (L) 321 33 — 354 Thirtmere 902 36 — 938 Thredbo Village 451 44 60 555 Tingha (L) 250 31 — 281 Tinonee (L) 258 23 — 281 Tootmwal 654 96 18 788 Tomakin (L) 332 173 — 555 Tometong (L) 75 10 — 85 Tomakin (L) 381 53 4 33 Trundie (L) 391 391 Trucabia (L) 391 391 Trundie (L) 393 29 3 119 Trundie (L) 393 29 3 119 Trundie (L) 385 227 18 2629 Turb Beach 906 214 — 1120 Tuross Heads 993 587 — 1520					2 343	
Tarmworth Tarmworth Tapiballos (L) Tapiballos (L) Tarciutta (L) Tarciutta (L) Tarce Taree Taraganda (L) Tarce Taraganda (L) Taraganda (L) Tarce Taraganda (L)					_	
Tepitalios (L)						
Yaralge (L)         11.9         28         3         150           Tarcutta (L)         94         11         5         110           Taree         6688         577         34         7 299           Tarraganda (L)         83         6         89           Tarthra         703         171         3         677           Tea Gordens         599         209         3         811           Ternora         1 643         183         13         1, 639           Tenterfield         1 304         1.67         17         1 508           The Oaks         504         15         —         519           The Rock (L)         321         33         —         354           Thirmere         902         36         —         935           Thredbo Village         451         44         60         555           Tingha (L)         250         31         —         281           Thone (L)         258         23         —         261           Tootmwal         654         96         18         788           Tometong (L)         75         10         —         85 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Tarcutta (L) 94 11 5 1.00 Taree 0 688 577 34 7 299 Tarneganda (L) 83 6					3	
Taree 6 688 577 34 7 299 Tarraganda (L) 83 6 - 89 Tathra 703 171 3 677 Tea Gardens 599 209 3 811 Ternora 1 643 183 13 1, 639 Tenterfield 1 1304 187 17 1 508 The Oaks 504 15 - 519 The Rock (L) 321 33 - 354 Thirtmere 902 36 - 938 Thredbo Village 481 44 60 555 Tingha (L) 250 31 - 281 Thonee (L) 258 23 - 281 Thournwal 654 90 18 768 Tomakin (L) 382 173 - 555 Tomerong (L) 75 10 - 85 Tomeloybuc (L) 92 10 4 106 Tottenham (L) 138 29 3 1.70 Trangle (L) 139 21 - 101 Tullamore (L) 130 12 - 102 Turnburgum (L) 130 12 - 142 Turnut 2386 227 18 2629 Turnoss Heads 933 587 - 1520						
Tathra 703 171 3 677 Tea Gordens 599 209 3 811 Ternora 1 643 183 13 1,839 Tenterfield 1 304 1.67 17 1 508 The Oaks 504 15 519 The Rock (L) 321 33 354 Thirtmere 902 36 935 Thredbo Village 451 44 60 555 Tingha (L) 250 31 281 Thonee (L) 258 23 281 Tootimwal 654 96 18 768 Tomakin (L) 332 173 555 Tometong (L) 75 10 85 Tooleybue (L) 92 10 4 106 Tottenham (L) 138 29 3 170 Trangle (L) 381 53 4 438 Trundle (L) 381 53 4 438 Trundle (L) 177 18 3 198 Tucabia (L) 90 11 101 Tullamore (L) 93 23 3 119 Tucabia (L) 93 23 3 119 Tucabia (L) 93 23 3 119 Turnbulgum (L) 130 12 142 Turnut 2 385 227 16 2629 Turos Heads 903 567 1520			0 658	577	34	7 299
Tea Gordens         599         209         3         811           Ternora         1 643         183         13         1,639           Tenterfield         1 304         1,87         1,7         1,508           The Oaks         504         15         —         519           The Rock (L)         321         33         —         354           Thirdbo Village         902         36         —         926           Thredbo Village         451         44         60         555           Tingha (L)         250         31         —         281           Tinonee (L)         258         23         —         281           Tinonee (L)         258         23         —         281           Tournakin (L)         382         173         —         555           Tornerong (L)         75         10         —         85           Tooleybuc (L)         92         10         4         106           'fottenham (L)         138         29         3         1,70           Trangle (L)         1,77         18         3         1,98           Trundle (L)         1,77         18	Tarraganda (L)		83	3 5	-	89
Ternore 1 543 183 13 1,639 Tenterfield 1 304 187 17 1 508 The Oaks 504 15 519 The Rock (L) 321 33 354 Thirmere 902 36 936 Thredbo Village 481 44 60 555 Tingha (L) 250 31 281 Tinonee (L) 258 23 281 Tocumwal 654 90 18 768 Tomakin (L) 332 173 555 Tomerong (L) 75 10 85 Tometong (L) 75 10 85 Tooleybuc (L) 92 10 4 106 Tottenham (L) 138 29 3 170 Trange (L) 138 29 3 170 Trange (L) 381 53 4 438 Trundle (L) 177 18 3 198 Tucabia (L) 90 11 101 Tullamore (L) 93 23 3 119 Tucabia (L) 93 23 3 119 Turnbarumba 607 53 660 Turnbulgum (L) 130 12 142 Turnut 2385 227 18 2629 Turas Heads 933 587 1520	Tathra		703	3 171	3	677
Tenterfield 1 304 187 17 1 508 The Oaks 504 15 519 The Rock (L) 321 33 354 Thirtmere 902 36 938 Thredbo Village 451 44 60 555 Tingha (L) 250 31 281 Tinonee (L) 258 23 281 Tocumwal 654 96 18 768 Tomakin (L) 332 173 555 Tometong (L) 75 10 85 Tooleybue (L) 92 10 4 106 Tottenham (L) 138 29 3 170 Trangle (L) 381 53 4 438 Trundle (L) 177 18 3 198 Trundle (L) 177 18 3 198 Trundle (L) 90 11 101 Tullamore (L) 93 23 3 119 Tucabia (L) 93 23 3 119 Tumbulgum (L) 130 12 142 Tumut 2385 227 16 2629 Turas Heads 933 587 1520						
The Oaks The Rock (L) The Rock (L) The Rock (L) Thirmere  802 36 — 938 Thredbo Village Thredbo Thredbo Village Thredbo Thredbo Thredbo Village Thredbo Village Thredbo Thredbo Village Thredbo Village Thredbo						
The Rock (L)						
Thirlmere 802 36 — 936 Thredbo Village 451 44 60 555 Tingha (L) 250 31 — 281 Tinonee (L) 258 23 — 281 Toctimwal 654 96 18 768 Tomakin (L) 382 173 — 555 Tometong (L) 75 10 — 85 Tooleybuc (L) 92 10 4 106 'fottenham (L) 138 29 3 1.70 Trange (L) 381 53 4 438 Trundle (L) 1,77 18 3 198 Tucabia (L) 90 11 — 101 Tullamore (L) 93 23 3 119 Tucabia (L) 93 23 3 119 Turbarumba 607 53 — 660 Turbulgum (L) 130 12 — 142 Turnut 2385 227 18 2629 Tura Beach 906 214 — 1120 Turos Heads 933 587 — 1520						
Thredbo Village						
Tingha (L)         250         31         —         281           Tinonee (L)         258         23         —         281           Tocumwal         654         96         18         768           Tomakin (L)         382         173         —         555           Tometong (L)         75         10         —         85           Tooleybuc (L)         92         10         4         106           'fottenham (L)         138         29         3         1.70           Trangle (L)         381         53         4         438           Trundle (L)         1,77         18         3         1.98           Tucabia (L)         90         11         —         101           Tullamore (L)         93         3         1.19           Turnbarumba         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnut         2386         227         18         2629           Yura Beach         906         214         —         1,20           Turnots Heads         933         587         —         1,520 <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>				_		
Tihonee (L) 258 23 — 281 Tocumwal 654 96 18 769 Tomakin (L) 382 173 — 555 Tomerong (L) 75 10 — 85 Tooleybuc (L) 92 10 4 106 'fottenham (L) 138 29 3 170 Trange (L) 381 53 4 438 Trundle (L) 177 18 3 198 Tucabia (L) 90 11 — 101 Tullamore (L) 93 23 3 119 Tumbarumba 607 53 — 660 Tumbulgum (L) 130 12 — 142 Tumut 2386 227 18 2629 Turas Heads 933 587 — 1520						
Tocumwal   654   96   18   768   Tomakin (L)   382   173     555   50merong (L)   75   10     655   100e/pluc (L)   92   10   4   106						
Tomakkn (L)         382         173         —         555           Tomerong (L)         75         10         —         85           Tooleybuc (L)         92         10         4         106           'fottenham (L)         138         29         3         170           Trangle (L)         381         53         4         438           Trundle (L)         177         18         3         198           Tucabia (L)         90         11         —         101           Tullamore (L)         93         23         3         119           Tumbarumba         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnut         2385         227         16         269           Yura Beach         906         214         —         1120           Turnuts Heads         933         587         —         1 520						
Tornerong (L)         75         10         —         BS           Tooleybuc (L)         92         10         4         106           'fottenham (L)         138         29         3         1.70           Trangle (L)         381         53         4         438           Trundle (L)         1,77         18         3         1.98           Tucabia (L)         90         11         —         101           Tullamore (L)         93         23         3         1.19           Turnbarumba         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnbulgum (L)         2386         227         18         2629           Yura Beach         906         214         —         1,20           Turnbulgum (L)         1,20         2,20         1,50         1,50			38			555
Tooleybuc (L)         92         10         4         106           'fottenham (L)         138         29         3         170           Trangle (L)         381         53         4         433           Trundle (L)         177         18         3         198           Tucabia (L)         90         11         —         101           Tullamore (L)         93         23         3         119           Turnbarumba         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnut         2385         227         18         2629           Yura Beach         906         214         —         1120           Tuross Heads         933         587         —         1520			7			
Fottenham (L)         138         29         3         1.70           Trangle (L)         381         53         4         438           Trundle (L)         1,77         18         3         1.98           Tucabia (L)         90         11         —         101           Tullamore (L)         93         23         3         119           Turnbarumba         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnut         2,385         227         16         2,629           Yura Beach         906         214         —         1,120           Tuross Heads         933         587         —         1,520			9	2 10	. 4	106
Trundle (L)         177         18         3         198           Tucabia (L)         90         11         —         101           Tullamore (L)         93         23         3         119           Turnbarumbe         607         53         —         660           Turnbulgum (L)         130         12         —         142           Turnut         2385         227         18         2629           Tura Beach         905         214         —         1120           Tuross Heads         933         587         —         1520			13	8 29	Ė.	1.70
Tucabia (L)			. 38	11, 53	4	438
Tullamore (L)     93     23     3     119       Tumbarumba     607     53     —     660       Turbulgum (L)     130     12     —     142       Tumut     236     227     18     2 629       Yura Beach     906     214     —     1 120       Tuross Heads     933     587     —     1 520	Trundle (L)		1,7	7 18	3	198
Tumbarumbe         607         53         —         660           Tumbulgum (L)         130         12         —         142           Tumbut         2 385         227         16         2 629           Yura Beach         906         214         —         1 120           Tuross Heads         933         587         —         1 520			٤	10 1.1		101
Turnbulgum (L)         130         12         —         142           Turnut         2 385         227         18         2 629           Tura Beach         906         214         —         1 120           Tuross Heads         933         587         —         1 520						
Tumut         2 385         227         18         2 629           Yura Beach         906         214         —         1 120           Tuross Heads         933         587         —         1 520						
Yura Beach         906         214         —         1 120           Tuross Heads         933         587         —         1 520						
Tuross Heads . 933 587 — 1.520						
UKI (L) 81 1 — 85						
	UKI (L)		i	31.	· —	85

— nil or rounded to zero (including null cells)

ABS . SELECTED CHARACTERISTICS: UABAN CENTRES & LOCALITIES, NEW & ACT . 2016.1 . 2001 78

18/01 04 10:00 PAX 81 2 49614981

H V RESEARCH FOUNDATION

Ø 003



# OCCUPIED PRIVATE DWELLINGS continued

	FULLY	BEING PURCH.	LSED.	RENTED	•••••	. TOTAL	
			Median monthly loan		Median Waskiy		
	Dwellings	Dwellings(e)	repayment	Dwellings	rent	Owellings(b)	Persons (
sographic area	no.	Vor	\$	no-	\$	Bo.	,
· 有《公司的《中心》《公司《古斯西尔斯·西尔斯·西尔斯》《				*****		******	
	URBAN	CENTRE/LO	CALITY COS	77.			
EW SOUTH WALES com.							
01.com							
Pitt Town (L)	95	103	1 055	27	220		
Port Macquarie	6 887	3 067	905	4323	156	241 15 482	
Portland	376	175	590	111	110	15 462 710	363
Pottsville Beach	469	170	851	321	165	1 012	17
Quirindi	483	186	537	286	105	1 031	25
Raymond Terrace	1 309	1 228	795	1.751	117	4 483	12.2
Red Rock (L) Righmond North	84	19	616	30	126	140	
Richmond-Windsor	389	372	1 030	421	172	1 260	3.5
Robertson	2 368	2 954	1 063	3 202	172	8 108	25 2
Rothbury North (L)	136	141.	995	59	167	357	10
Rylstone (L)	54 141	71	\$0\$	40	152	172	4
Safety Beach (L)	120	41,	750	58	103	259	(
St Georges Basin-Sanctuary Point	1 685	S1, 586	793	30	1.56	216	
Salamander Bay-Soldiers Point	1 035	362	670	614	137	3 213	7.5
San (sidore (L)	59	35	997	532	158	2 130	4 5
Sandy Beach	233	233	912 665	3	79	105	3
Sawtell	2 038	1 240	816	140 1.807	154 142	634	1 8
Scone	713	427	B41	592		5 377	13
Scotts Head (L)	169	47	662	92	118 135	1817	43
Seaham (L)	53	60	914	4	179	351 120	
Shoalhaven Heads	830	178	836	203	147	1 267	3
Silverwater (L)	144	80	859	37	151	274	5.2
Singleton	1 568	1 176	922	1 426	137	4 503	12.1
Smiths Lake (L)	168	88	690	70	140	339	
Smithtown-Gladstone (L) South Golden Beach	219	97	658	51	130	388	ģ
South West Rocks	1.86	162	742	186	176	S60	1.4
Spring Hill (L)	985	223	841	496	143	1 812	40
Stanwell Park	35	34	857	18	128	98	
Stanwell Tops (L)	162 66	139	1 508	98	220	434	13
Stockinbingal (L)	52	57 27	1, 514	20	165	157	
Stroud (L)	132	27 56	610 554	14	91	96	4
Stuarts Point (L)	204	57	488	40	114	249	6
Suffolk Park	398	339	1005	55 456	116	351	7
Sunshine (L)	80	35	628	25	220	1 312	3 2
Sussex Inlet	. 893	182	578	224	156 124	155	3
Sutton (L)	35	32	1 050	. 20	142	1.388	2 \$
Sydney	484 314	288 986	1 308	377 708	218	92 1 256 732	2 402 4
Tahrnoor	571,	418	1.001	367	172	1 485	3 407 1
Talbingo (L)	68	12	616	34	102	1400	4 3
Tarnworth	4 81.1	2 991	760	4 099	130	12 489	31.1
Tapitallee (L)	42	51	1016	3	~==	96	31.3
Taraiga (L) Tarcutta (L)	77	19	656	16	66	117	2
Taree	48	32	478	1,5	Éŝ	94	2
Tarraganda (L)	2 799	1 429	706	2 147	114	6 688	15 9
Tethra	46	27	966	5	87	82	2 2
Tea Gardens	312	130	803	222	132	704	16
Temora	935 972	90	980	132	147	601	13
	872	370	586	313	98	1,642	40

<sup>-</sup> nii or rounded to zero (including nuli cells)

84 ABS - SELECTED CHARACTERISTICS: URBAN CENTRES & LOCALITIES, NSW & ACT - 2016.1 - 2001

<sup>(</sup>a) Comprises 'Being purchased' and 'Being purchased under a rent/buy scheme'.

<sup>(</sup>b) Includes 'Being occupied rent-free', 'Reing occupied under a life tenure scheme', 'Other tenure type', and 'Not stated'.

(c) Includes overseas visitors.



PERSON AND HOUSEHOLD CHARACTERISTICS, Urban Centres and Localities continu

**TABLES** 

Table 1 (Existing and Future Lots and ETs (Water))

EXISTING & FUTURE LOTS & ETs		area Lot		-								*******					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sine	For	Assets A	pportionn lages / At	ent	my/
	Existing		Total		area ET C	etails		S	ingleton S					Single	eton Syst	em With V	illages			9.01011 0)		dpipe	utton / /-	y ,
		No Of	No Of		Future			No Of Lot	S		No Of E7			No Of Lot	\$		No Of ET			No Of Lot			No Of ET	ř
	Lots	Lots	Lots	ET	ET	Total ET	Existing	Future	Total	Existing	Future	Total	Existing	Future	Total	Existing	Future	Total	Existing	Future	Total	Existing		Total
All areas pay a share			<b>†</b>	1	1		5956	2594	8550	5951	2590	8540	6244	2670	8914	6280	2673	8953	7044	2870	9914	7080	2873	995
All areas pay a share (except Retreat, East Of Retreat		1	-	-			4250			4245	2206									2480		5307	2483	
Sing Hts Upper Zone, Camberwell & Hunterview)		,	1		1	:					Mary 1					4001	- 2200	0,30	VE! !	2400		0307	2403	119
Refreat Estate	286	147	433	3 286	147	433								*										·
East Of Retreat	. 0	50	50	0	50	50										·		~~~~~	<del></del>				***************************************	<u> </u>
Pinnacle Estate	0	500	500	0						***				·		·				······································				
Singleton Hts Upper zone	707	(												***********		·							******	<u> </u>
Singleton Hts Middle zone	1028		1028					//						†				************						·
Maison Dieu Industrial Estate	271	110					^-^				*****					·								ţ
Gowrie Gates Development	0	550														·					······································			·
Hunterview Estate	713				187	900										÷								<u>.</u>
Singleton Town (Lower Zone, Old Part Of Town)	2951	100	305	2951				**** F**** #****	******************					·		***************************************								
Gresford Road Sub-Area	0	150			150	150			*****			·····			A								·····	<u> </u>
Bridgman Ridge	0	800		0	150 800	150 800											i	,						
Mt Thorley	76	14	90	117	22	139																		
Broke (Existing lots are backlog)	110		157			157		~								***************************************								
Bulga (Existing lots are backlog)	35					44	~~~													*****				<u> </u>
Camberwell (Existing lots are backlog)	67					73																		
Singleton Abattoir (1.0 ML/d) equivalent no. of lots	250	0	250	250	0	250				·														
Singleton Army Base (1.9 ML/d to 2.5 ML/d)	475	150																				~		
equivalent no. of lots Standpipe (0.3 ML/d to 0.5 ML/d) equivalent number	75	50	125	i	50					i						i								
of lots	/5	50	125	75	50	125															***********			
111.7 W.W. AANTON A. P. S.	ļ		-	ļ									~~~											
Mt Thorley & Broke	186	61	247	227	69	296	~~~																	
Bridgman Ridge & Hunterview	713	987				296 1700																		
				<b></b>																				
Jerry's Plains	58	28	86	58	28	86																		

C:\BEN\WATER\Lots, ETs (Water) -Existing, Future Sep 2004

Table 2 (Lot Takeup (ET) - Water 2% 1% 0.5% - 050329)

Year		Lot	IC	um No Lot	Cum		Sowne	Gates		Maison	Dieu		nnacie E		Hunt	erview 8	state		man R	idge		reat Est	ate :		2 Retreat		Gresford	Road		Town	intill	East C	of Bridge	nan Ride	le i		Overall		: N	o of Nov
!		Gro	wth O	Lots Increm	nen Lot	Lo	ots :	ET		ots :	ET	Lot	S	ET	Lot	\$	ET	Lots	1	ET	Lot		ET (	Lois	ET		.ots	ET		ols	ET	Lo	\$	ET		Lots	i i	ET	Ass	ossmon
			1%		Increment		550:1	UF= 10	0	110: N	1F= 0.98	3	500 M	= 10	)	187 MF	a 1.00	81	CO MF	= 1 CO	:	47 MF	=: 1.CO:	5	0 MF= 1	CO	150 1	AFE: 1	00	100 8	MF= 1 00	0	1200 M	(Fa : 1.0	00 :	41	67			No
			pai	1	1	inc :	CT	nc CT	Inc	CT it	C CT	Inc C	T inc	CT	ing (	T Inc	CT	Inc C	T Inc	CT	Inc :C	Y inc	CT	nc CT	fine C	T loc	CII	nc C	T line	CTI	nc CT	inc (	T Inc	CT	Inc	CT	lac	CT	T Ro	
0	2003	2004		5956:	7								,				-							***********						1		7		******	an france					
1	2004:/			6016	60: 60:	: :			6	6	6! 6	29	29:	29: 2	9: 11:	11: 1	1 11				8	8: 8	3 3							6	6 6				- B	0	80: 6	0 6	0: 53.2	345 70
2	2005:7			6076	60 120				. 4	10	3 3	16	45	16: 4	5 6	17:	6 17	26: 3	26 2	6 26	5	13 5	13							9	3 9				6	1 1	21 6	1 12	2 56 5	71 4.3
3	2006:/			6136	61: 180	13:	13	13: 13	3 3	12	3 12	12:	57	12: 5	7 4	21.	4 21	19:	45: 1	9 45	4	17	17	·····		: 4	4	4	4: 2	11	2: 11	1		A-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	6	3 1	84 6	3 18	5 59.2	301/3/
4	2007:/			6198	611 242	: 13	26	13: 2	6 3	15	3 15	: 12:	69:	12: 6	9: 5:	26	5 26	19: 4	65: 1	9 65	4	20 4	20			: 4	7	4	7 2	14	2: 14	1			: 6	3 2	47 6	4: 24	8 598	224 34
5		2009		6260	62 304:	13	40:	13: 40	0 3	18	3: 17	12:	81	12: 8	5:	30	5: 30	19	84: 1	9: 84	4	24 4	24		-1	4	11:	4	11: 2	16	2 16				6	4: 3	11 6	4 31	2 60 4	206: 34
6		2010		6322:	63: 366	14	53:	14: 50	3: 3	21	3 20	12:	93	12 9	3 5	35	5 35	20 16	04: 2	0: 104	4:	27 4	27			: 4	15	4:	15: 2	19	2 19				6	5 3	76: 6	5 37	7 610	48: 3.5
7	2010 /			6386	63 430	. 14	67	14 6	7 3	23:	3 22	12:	106	12: 10	5: 5	40:	5: 40	20: 13	24: 2	0: 124	4:	31: 4	31:		1	4	18	4	18: 2	21	2: 21				6	5 4	11 6	6 44	3 61.6	351 3.5
8	2011 /			6449	64 493	. 14	81	14: 8	1: 3	26:	3: 25	13	118	13: 11	51	44:	5 44	20: 14	44 2	0 144	4	35: 4	35			: 4	22	4 :	22: 3	24	3 24	15			6	6 50	07 6	6: 50	9: 62 2	14 3.5
9	2012 /			6514	64 558	14	95:	14: 95	5 3	295	3: 28	31 13	131	13: 13	1 5	49:	5 49	20: 16	64 2	0 164	4	39: 4	39			: 4	26	4 2	26: 3	26	3: 26	( )			6	7: 5	73 6	7: 57	6 63.2	39: 3.6
10:	2013:/			6579	65 623	. 14	109	14: 10:	9: 3	32	3 30	13	144	13: 14	1 5	54:	5 54	20 18	84: 2	184	4	42 4	42		7	4	30	4.	30 3	29	3; 29	1			: 6	8 6	11 6	8: 64	4 63 8	62: 3.6
11	2014 /		i	6645	66 689	14	123	14: 12:	3 3	34	3: 33	13	157	13 15	5	59	5 59	21 20	05 2	1 205	4	46: 4	46!			4	34	4: :	34: 3	31	31 31		7		6	8: 70	9: 6	9: 71	2 64.4	47 3.6
12	2015 /			67113	66 755	14	137	14 13	7 3	37	3: 36	13:	170	13 17	51	63	5 63	21 22	26 2	1 226	4	50 4	50		1	4	37	4 ;	37: 3	34	3 34	i			6	9 7	78: 6	9: 78	2 65 1	97 37
13	2016:/			6778	67: 822	15	152	15: 15:	2 3	40	3 39	13:	183	13 18	3 5	68	5: 68:	21 2	47 2	1: 247	4	54: 4	54			4	41	4 4	11 3	37	3 37				7	0 84	7 7	0 85	2: 65.7	111 3.7
14	2017 /				68 890	15	167:	15 16	7: 3:	431	3 41	13	196	13 19	5 5	73	5 73	21 26	68 2	1: 268	4	58 4	58			4	45	4 4	15 3	39:	3 39				7	0 91	18 7	1: 92	2 66.4	90 37
15	2018:/			6915	68 959	15	181	15 18	1 3	46	3 44	13	210:	13 21	5	78	5 78	22 29	90 2	2 290	4	62: 4	62	:		- 4	49:	4: 4	19: 3	42	3 42				7	1 98	39: 7	1 99	3 67 1	35: 3 8
16	2019 /			6984	69 1028	15	196	15: 196	3	49:	3 47	14	223	14: 22:	5:	84	5: 84:	22: 3	12 2	2 312	4	86: 4	66			: 4	54	4: 5	54 3	45	3 45				7	2 106	30: 7	2 106	5: 67 7	46 3.8
17	2020 /			7054	70 1098:	15	211	15 211	t: 3	52	3: 50	14	237	14: 23	5	89:	5 89	22: 33	34: 2	2 334	4	70 4	70		1	: 4	58	4 5	58 3	47	3 47	T			7	3 113	33: 7	3 113	9: 69.1	24: 39
18	2021 /	2022		7124	71 1168	15:	227	15 227	7 3	55	3: 53	14	251	14 25	5	94:	5: 94:	22 35	56 2	2: 356	4:	74 4	74:		1	4	62	4: 6	2 3	50	3 50				: 7	3: 120	7:	3 121	2 69.8	38: 3.0
19	2022 /	2023		7195 7267	71 1239	15	242	15: 242	2 3	58:	3 56	14	265	14: 28:	5: 5:	99	5: 99:	22: 37	78: 2:	2: 378:	4.	781 4	78	- 1	1 1	1 4	66	4: 6	6: 3	53	3 53				7.	4 128	30 7	3 128	5: 705	20 30
20:	2023 /			7267	72 1311	16	2581	16 258	3	615	3: 59	14	279	14: 27!	5:	104	5: 104	23: 40	01: 2:	3: 401	4	82 4	82	?	1 (	4	70:	4: 7	70: 3	56:	3: 56	5 5	T.	I	7.	4 135	4 7	4 135	9: 71.2	72: 3.1
21	2024 /	2025		7340	73 1384	16	273	16 273	3: 3:	65	3  62	14	293	14 29	3: 5	110	5 110	23 42	24 2	3 424	4	86: 4	: 86		[ [	1 4	75	4: 7	5 3	59:	3: 59	12 5				5: 142		5 143	4 71.9	95: 3 1
22	2025 /	2026		7414	73: 1458:	16	289	16: 289	3	68	3 65	14:	308	4 30	5	115	5 115	23 44	47! 2:	3 447	4	90: 4	90			4	79	4: 7	9: 3	62	3 62				7	6 150	5 7	6: 151	0 72.6	89 3.1
23	2026 /	2027		7488	74 1532	16	305	16: 305	3	71	3 68	15	322	15: 323	5	121	5 121	23 47	70 2	3 470	4:	95 4	95		1	: 4	83:	4 8	3: 3	64:	3 64		5		7	7 158	32: 7	6: 158	6 73 3	55 32
24	2027 /			7563	75 1607	16	321	16: 321	1: 3:	74:	3 71	15:	337:	15 33	61	126: 1	6: 126	24 48	94 24	494	4	99: 4	991			. 4	88:	4 8	8 3	67	3  67				7	7 165	9 7	7: 166	4 74.1	93 3 2
25	2028:/		i	7638	76 1682	16	338:	16 338	3 3	77	3: 74	15	352	5 352	6	132	5: 132:	24: 51	17 24	1 517	4 1	03 4	103		7	4	92	4 5	2: 3	70	3 70		1		7	8: 173	7: 7:	8 174	1 74.5	36: 3.2
26	2029 /			7715;	76 1759	17	354	17 354	1 3	81	3: 77	15:	367	5: 36	6	37: 1	137	24 54	41: 24	541	4 1	08: 4	108		1	: 5	97:	5 5	7 3	73	3 73		T		7	8: 181	5: 7	8 181	9: 74.8	64: 33
27	2030 /			7792	77 1836	17	371	17: 371	11 3	84	3 81	15	382	5 382	6:	143	5: 143	24 56	66 24	566	4 1	12 4	112	Anna part to		: 5	101	5 10	1 3	76	3: 76	1			7	9 189	14: 7	9 189	8 75 62	51 33
28	2031 /	2032		7870	78: 1914	17	388	17 388	3 3	87	3: 84	15	397	5 39	6	49	5: 149	25 59	90: 25	5: 590	5:1	17 5	117		1 1	5	106	5 10	6 3	79	3: 79	1			81	0 197	4 8	0: 197	8: 76 38	14 3.3
29	2032 /	2033		7948	79: 1992:	: 17:	405	17 405	3	91	3 87	15:	413:	5 413	6:	154	154	25 61	15 2	615	5 1	21 5	121		1 1	5	110	5: 11	0 3	: 83	3: 83	1.20.00			8	1: 205	4 8	0 205	8: 77.14	52 3.4
30	2033 /	2034		8028	79: 2072:	17	422:	17: 422	3	94	3 90	16	428	6: 428	6.	160	160	25: 64	10: 25	640	5 1	26 5	126			5	115	5 11	5: 3	86	3 86				- A	1: 213		1 213	9: 77 9	67: 34

C 18ENIWATERILot Takeup (ET) - Water 2% 1% 0.5% - 050329 Water 1%Lot Growth + New Assess Page 1 of 2

Year	Mt Thorley Cum No Lot	Cum		ET				Lot Cu	m :	1		Bulga	Cum No					Camb	berwi Cu	m No L		um ;			Separate			Lot	Cum :		- 1
	Allotment Of Lots Inc	Lot						nc Lot		ET		Allotment	Of Lots		Lot	€.	T		nent : Of	Lots in		N	ET		Water	Allotment	Of Lois	Inc	Lot		ET T
	Growth pa 90	Inc		MF= 15	54	Growth pa	157	lnc			1.00	Growth pa	1	44:	Inc :		u 1.00	Grow	th pa	73	lo	c	MFs	1.00	Supply	Growth pa	8	6	inc	I M	F= 1.00
0 2003 / 2004	1 1%		: 161	C T	T	1%	[.			inc	CT	1%	1			inc	CT		1%				inc (	T	System	1%	1		1	too	CT
2003 / 2004			117			L					1		i	_[			i	1. 1									: 5	8		58	
2 2005 / 2006	77	111	118	_1:	1: 1	1						nieroviranom na .	L					1				) [				;	5	9	1	59	1
2005 / 2006		1 2	119	1	2:	Backlog =	110:		. 11	0!	i.	i						1								1	5	9	1	59	1: 7
2006 // 2007		1 2	121	1	4: 3	£	131:	1	1 11	1 1	1. 1															1	6	0. :	2	60	1
2007/7/2008		1 3	122	1:	5	L	112	1	2 11	2 1	3!		L		i.				- 1						1		6	0: 1	2	60	1 7
	80	1 4	123	1:	8		113	1:	3 11	3: 1	3																. 6	1 1	3	61:	1. 7
2009 / 2010		1 5	124	. 1	7:	L	114	11	4: 11	4 1	4:														1.	1	6	2: 1	4	621	1 2
2010 / 2011		1 5	125		8	įi	116		6 11	6 1	6							rizonia comune							i		6	2: 1	4	62	1 4
2012 / 2013		1 6	127		10:	i			7 11	7 1	71	Backleg =	i	35		35	- toron	in items	1						1		6	3: 1	5:	63	1 5
0: 2013 / 2014		1	128		13:		118		8 11	8 1	8			35 0	0:	35	0 0		· ·							·	6	3 1	5	63	1 5
2014 / 2015		1 8	129		12	i	119:		9 11	9 1	9			36: 0	11	36	0 1	1		************							. 6	4 1	6:	64	1 6
2015:/ 2016		1: 9:	131		14		120		10 12		10:		1	6 0	11	36:	0 1	12 :				demonstration					6	5 1	7	85	1 7
2016 / 2017		11 10	132		15		122		12 12	2 1	12:			36 0:		36	0 1					viniena i					6	5 1	7	65	11 7
		1 10	133	1	16		123		13 12	3 1	13		3	37: 0	2	37	0: 2										. 6	6 1	8	66	1 8
2017 / 2018		1 12	135		17:		124		14 12	1	14	i		37 0	2	37:	0 2	1						i		i	6	7 1	9	67:	1, 9
			136		19:	<u> </u>	125		15: 12	5! 1	15			0 88	3:	38	0 3	1			i					1	6	7 1	9	67:	1: 5
	89	1: 13:	137		20		126	1;	16: 12	1	16		3	88: 0	3	38	0 3	Backl	og = :	67	i	67				L	. 6	8 1	10	68	1: 10
2020 / 2021		1 14	139		22		128	1;	18 12	3: 1	18		1 3	8 0	3	38	0 3	1 2		68	1	1 68	1	1			6	9 1	11	69	1: 11
2021 / 2022	901	0 14	139	0	22	i	129		19 12	1	19	<u> </u>	3	9 0	4	391	0! 4	i		68	1:	1 68	1	1			6	9: 1	11	69:	1; 11
2022 / 2023	90	0 14	139	0 3	22: :	<u> </u>	130	1	20 13		20		1 3	9 0	4:	39	0: 4			69	1	2 69	1!	2	1		74	0: 1	12:	70	1: 12
		0: 14:	139:	0: :	22	1	132	1	22: 13:		22	-	3	9: 0	4:	39	0: 4	r 1		70	1	3: 70:	1.	3		\$	7	1 1	13:	71.	1 17
1 2024 / 2025	90:	0 14	139	0 3	22		133	1	23 13		23	i		0 0	5:	40	0 5			70	1:	3: 70:	1!	3;			7		: 13	71	1: 13
2 2025 / 2028	90	0 14:	139	0 3	22		134	1	24 13	1 1	24			0 0	5	40	0: 5			71	1:	4 71	1	4		1	7:	2: 1	14:	72	1 14
3 2026 / 2027	90	0 14	139:	0 3	22		136	1	26: 13	1	28			1: 0	6	41	0 6			72	1	5 72	1	5			7:	3: 1	15	73	1 15
4 2027 / 2028		0 14:	139		22		137	1 3	27 13	1	27		4	11: 0	6:	41	0: 6		- 1	73	11	6 73	1	6		1	7	4 1	16	74	1: 16
2028 / 2029	90	0 14	139		22:		138		28: 13:	1	28		4	1 0:	6	41	0: 6	1 1	n normal balan	73	0	6 73	0	6			7.	4: 1	16	741	1 16
2029 / 2030 7 2030 / 2031	90	0: 14:	139	0 3	22		140	1	30: 14	1	30			2 0	7	42	0 7	1		73	0:	6 73	0	6		1	75	5 1	17	75	1: 17
	90	0 14	139	01 2	22:		141		31 14	1	31	· i.v	4	2 0	7	42:	0 7	1		73	0.	6 73	0	6	í		76	5; 1	18	76	1: 18
2031 / 2032	90	0. 14	139		22	i	142:	11	14:	1	32	4	4	3 0	8	43	0. 8			73	0	6 73	0	6		1	77	7: 1	19:	77	1: 19
9 2032 / 2033	90 9	0: 14:	139	0 2	22		144		34 14		34		. 4	3 0	8	43	0 8			73	0	6 73	01	6		(	77	71 1	19:	77	1: 19
30 20331/ 2034		0: 14:							35 14					4: 0:																	

C:38:NWATERILot Takeup (ET) - Water 2% 1% 0.5% - 05:0329 Water 1% Lot Growth+New Assess Page 2 of 2

Table 3 (Lot Takeup (ET) - Water - Army and Standpipe)

Year			Lot	Cum No	Lot	Cum		Ar	my			Stan	dpipe			O	verall		No. o	f New
			Growth	Of Lots	Increment	Lot	L	ots	E	ĒΤ	L	ots	E	T	L	.ots	I	ET	Assess	sments
			1%			Increment		150	MF≔	1.00	-	50	MF=	1.00		151			h i dala Biologia (dalah kalandaria)	Non
			ра				Inc	СТ	Inc	СТ	Inc	СТ	Inc	СТ	Inc	СТ	Inc	CT	Res	Res
0	2003 /	2004	***************************************	550			475		475		75		İ	İ		1				"
1	2004 /	2005		556	6	6	5	5	5	5	1	1	1	1	6	6	6	6	AND RESERVOIR CONTRACTOR OF THE PARTY AND ADDRESS AND	
2	2005 /	2006		561	6	11	5	10	5	10	1	2	1	2	6	11	6	11		
3	2006 /	2007		567	6	17	5	14	5	14	1	2	1	2	6	17	6	17		
4	2007 /	2008	***************************************	572	6	22	5	19	5	19	1	3	1	3	6	22	6	22	***************************************	·
5	2008 /	2009		578	6	28	5	24	5	24	1	4	1	4	6	28	6	28		1
6	2009 /	2010	.***.*	584	6	34	5	29	5	29	1	5	1	5	6	34	6	34		-
7	2010 /	2011		590	6	40	5	34	5	34	1	5	1	5	6	40	6	40		-
8	2011 /	2012	NOT TO SECURE OF SECURE	596	6	46	5	39	5	39	1	6	1	6	6	46	6	46		1
9	2012 /	2013		602	6	52	5	45	5	45	1	7	1	7	6	52	6	52	te analysis analysis and analysis and analysis and	
10	2013 /	2014		608	6	58	5	50	5	50	1	8	1	8	6	58	6	58		
11	2014 /	2015		614	6	64	5	55	5	55	1	9	1	9	6	64	6	64		
12	2015 /	2016	TV-S-State - Section Assessment - Company	620	6	70	5	60	5	60	1	10	1	10	6	70	6	70		
13	2016 /	2017		626	6	76	5	66	5	66	1	10	1	10	6	76	6	76		1
14	2017 /	2018	************************	632	6	82	5	71	5	71	1	11	1	11	6	82	6	82		
15	2018 /	2019		639	6	89	5	76	5	76	1	12	1	12	6	89	6	89		
16	2019 /	2020		645	6	95	6	82	6	82	1	13	1	13	6	95	6	95		An observed the state of
17	2020 /	2021		651	6	101	6	88	6	88	1	14	1	14	6	101	6	101		
18	2021 /	2022		658	7	108	6	93	6	93	1	15	1	15	7	108	7	108		
19	2022 /	2023		664	7		6	99	6	99	1	16	1	16	7	114	7	114		
20	2023 /	2024		671	7	121	6	105	6	105	1	17	1	17	7	121	7	121	#	1
21	2024 /	2025		678	7	128	6	110	6	110	1	17	1	17	7	128	7	128		
22	2025 /	2026		685	7	135	6	116	6	116	1	18	1	18	7	135	7	135		
23	2026 /	2027		691	7	141	6	122	6	122	1	19	1	19	7	141	7	141	***************************************	
24	2027 /	2028		698	7	148	6	128	6	128	1	20	1	20	7	148	7	148	/	
25	2028 /	2029		705	7	155	6	134	6	134	1	21	1	21	7	155	7	155		
26	2029 /	2030		712	7	162	6	140	6	140	1	22	1	22	7	162	7	162	er en l'arreigne aran en en l'arreigne.	
27	2030 /	2031		720	7	170	6	146	6	146	1	23	1	23	7	170	7	170		
28	2031 /	2032		727	4	174	4	150	4	150	1	24	1	24	5	174	5	174		
29	2032 /	2033		734	0	174	0	150	0	150	1	25	1	25	1	175	1	175	*************************	
30	2033 /	2034	***************************************	741	0	174	0	150	0	150	1	26	1		1	176	1	176		-

C:\BEN\WATER\Lot Takeup (ET) - Water 2% 1% 0.5% - 050329 Army & Standpipe 1% Growth

Table 4 (Water Assets - Existing and Future)

Water Asset ID	Pipe Mat'i	U/S Node	D/S Node	Locality	Dia	Length (M)	Year Constr'd	Replacement Cost	Comment	
No	Type	No	No		(MM)	/IVI	Constitu	(Assumed CPI increase		
140	, ype	INO	110	*****	((0))(1)			of 3.0%, 6/03 to 6/04)		+
rom "WA	TER.DB"							0.0.070, 0.00 10 0.07)		
LL AREA	S PAY A S	HARE						\$ 27,925,535.94	Total	
xisting No	Of Lots =	7044	Future Lo	ls ≃	2870	Total =	9914			ļ
xisting A	ssets							\$ 25,141,164.44	Sub-Total	1
Paul Matai	r Dinalina	Glennies Creek	Dom To C	ingloton	MATE 0	nto Cord	Circuit)	6 40 200 745 00		
Naw Water	600 DICL	(Dam to WTP)	Daili 10 S	ingletori	600	19,528	1988	\$ 10,398,715.20	\$ 8,146,105.20	<u> </u>
		WTP into Gardr	ner Cct)		600	5,400	1988		\$ 2,252,610.00	
Sunt Main		nd of 600mm To	Divis Oss			-157-7				
inc 5410	DICL	ild of poorsill 10	KIX S CIE	ek Kes Al	450	1187		\$ 478,805.30	\$ 360,669.95	<u>-</u>
2017110.77.1	DICL				375	27	1988		\$ 6,535.35	
9041	Est cost=	\$35,000.00		CCF≃	1.24		1988		\$ 43,400.00	
9042 9043	Est cost=	\$25,000.00 \$30,000.00		(1995)			1988 1988		\$ 31,000.00	
3043	ESI (USI-	\$30,000.00					1900	<u> </u>	\$ 37,200.00	4
	WTP-Land				.,			\$ -		
(9039	Hist Cost=	\$133,730.00	<b></b>		4.61		1988		\$215,305.30	)
Obanvale V	Water Trea	tment Plant (WT	P)					\$ 11,391,800.00		<b>-</b>
		atment Works	· .,				1993	11,001,000.00	\$ 11,134,300.00	<b>-</b>
		Direct Filtration I				nt				1
		ed to convention isition (estimate		ot 60%=6	%)		1003		\$ 164 800 00	J
		iisition (estimate ad (estimated)	:u)		,		1993 1993		\$ 164,800.00 \$ 61,800.00	<u> </u>
		Site (estimated)					1993		\$ 30,900.00	
		J.,								
Rix's Creel	k Hill Resei		ļ					\$ 1,884,488.00		
		teel Reservoir live (estimated)					1988		\$ 1,719,688.00 \$ 10,300,00	
	Land Acqu	isition (estimate	d)				1988	L	\$ 103,000.00	<u> </u>
	Access Ro	oad (estimated)					1988		\$ 51,500.00	
Dietributie -	Main Del-	unitho decome to	inin E	ا	b Don T	0010		¢ 000 005 50		
Jistribution (5371	AC AC	w the 450mm M N77	nain From I N258	Rix's cree SHTS	k Res T	5 CV2 1,612	1982	\$ 399,805.83	\$ 378,562.08	ļ
5369	AC	N76	N77	SHTS	375	75	1982		\$ 378,562.08	
6020	DICL	N906	N907	SHTS	375	15	1982		\$ 3,630.75	)
Netributio -	Main Er-	i n CV2 To White	Avacua	ļ			ļ	6 400 440 35		
)istributior (5367	AC AC	n CV2 10 vvnite N27	N74	SHTS	300	244	1982	\$ 132,449.76	\$ 38,200.64	
5368	AC	N74	N75	SHTS	375	340	1982		\$ 79,845.60	
5031	UPVC	N27	N28	SHTS	300	92	1980		\$ 14,403.52	)
Dietribudie -	Main In M	orthoott Aven	And outer	dod To '-	toross-	ot Dista	k Mai-	6 76.050.00		
15032), istribution	AC	orthcott Avenue N28	N29	SHTS	terconni 200	20 Exix's	k Main 1965	\$ 75,050.95	\$ 1,957.00	<u> </u>
5040	AC	N40	N72	SHTS	200	155	1965		\$ 15,166.75	H
5041	AC	N72	N73	SHTS	200	140	1965		\$ 13,699.00	
5042 5043	AC AC	N73	N30	SHTS	200	82	1965		\$ 8,023.70	
5370	AC AC	N29 N77	N30 N78	SHTS	200 375	10 35	1965 1986		\$ 978.50 \$ 8,219.40	<b></b>
5372	AC	N78	N40	SHTS	375	115	1965		\$ 27,006.60	)
S										
		laxland Avenue	NO4	CUTC	200	400	1000	\$ 143,350.25	3,34,222	
(5050 5084	AC AC	N40 N84	N84 N41	SHTS	200	120 50	1968 1975		\$ 11,742.00 \$ 4,892.50	l
5091	AC	N41	N91	SHTS	200	75	1968		\$ 7,338.75	<u> </u>
5108	AC	N91	N97	SHTS	200	95	1968		\$ 9,295.75	
5109	AC	N97	N98	SHTS	200	100	1968		\$ 9,785.00	
5110 5111	AC AC	N98 N99	N99 N112	SHTS	200 200	150 60	1968 1968	ļ	\$ 14,677.50 \$ 5,871.00	LL
5120	AC	N112	N119	SHTS	200	100	1968	<u> </u>	\$ 5,871.00 \$ 9,785.00	H
5121	AC	N119	N118	SHTS	200	85	1968		\$ 8,317.25	
5127	AC AC	N118	N120	SHTS	200	45	1968		<b>\$</b> 4,403.25	
5128 5129	AC AC	N121 N121	N120 N122	SHTS	200 200	50 55	1968 1968	ļ	\$ 4,892.50 \$ 5,381.75	
	AC	N122	N127	SHTS	200	25	1968		\$ 5,381.75 \$ 2,446.25	
5132	AC	N127	N129	SHTS	200	30	1968		\$ 2,935.50	
5133	AC	N129	N130	SHTS	200	50	1968		\$ 4,892.50	
5133 5136		N130	132	SHTS	200	85	1968		\$ 8,317.25	<u> </u>
5133 5136 5138	AC			CHITC						
5133 5136 5138 5140	AC AC	N132	N135	SHTS	200 200	115 170	1968 1968		\$ 11,252.75 \$ 16,634.50	
5133 5136 5138	AC			SHTS SHTS SHTS	200 200 200	115 170 5	1968 1968 1968		\$ 11,252.75 \$ 16,634.50 \$ 489.25	)
5133 5136 5138 5140 5149 5155	AC AC AC UPVC	N132 N135	N135 N245 N245	SHTS	200 200	170 5	1968	\$ 236,699.15	\$ 16,634.50	)

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Replacement	Comment	
Asset ID	Mat'l	Node	Node	1	Dia	(M)	Constr'd	Cost	Comment	
No	Туре	No	No		(MM)			(Assumed CPI increase	~~~~	<del> </del>
							!	of 3.0%, 6/03 to 6/04)		
From "WA	TER.DB"									1
5412	AC	N345	N233	SHTS	375	45	4000			
5413	AC	N344	N345	RETR	200		1986		\$ 10,567.80	
5351	AC	N326				15	1986		\$ 1,467.75	1
5352	AC		N325	HUNT	375	45	1986	ļ	\$ 10,567.80	
		N326	N333	HUNT	375	820	1986		\$ 192,568.80	
5353	AC	N325	N327	HUNT	375	40	1982		\$ 9,393.60	1
5354	AC	N327	N245	SHTS	200	100	1982		\$ 9,785.00	):
Future As	sets	***************************************		-				\$ 2,784,371.50	Sub-Total	
Glennies C	Dreek Dam I	Booster Pump	Station:			~ / / /	2011	\$ 765,547.50		ļ
	Installed Pr	ower for 379 U	s to 70 m =	= 365 kW				700,041.00	\$ 518,347.50	ļ
	(where kW	= (379 x 70 x	1.1)/(100 x	0.8) = 369	5)				070,047.00	1
	(for deliver	ng 30ML/day o	over 22 hou	ırs)				***************************************		ļ
		isition (estimat		1					\$ 103,000.00	
		ad (estimated)		†						ļ
*		Site (estimated								
)banvale (	Concrete Ba		' <del> </del>	1			2011	\$ 250,000,00	\$ 133,900.00	ļ
	v Reservoir			·	ļ			\$ 250,000.00		ļ
		el Standpipe R	ecenyoir	·	ļ		2007	\$ 1,243,725.00		ļ
		ve (estimated)							\$ 1,019,700.00	
				·					\$ 7,725.00	
		sition (estimated)		ļ		N			\$ 206,000.00	
		ad (estimated)	ļ					· · · · · · · · · · · · · · · · · · ·	\$ 10,300.00	
00m \	UPVC		ļ,	.l	375	1,725	2006	\$ 405,099.00	Bridgman Rd to HV reservoir	Ī
		rview (CV4) in					2007	\$ 60,000.00		
raive On 3	sromm Mair	- AICV For H	unterview F	Reservoir			2007	\$ 60,000.00		[
	ļİ									1
	<u> </u>		i							1
LL AREA	S PAY A S	HARE	1						· · · · · · · · · · · · · · · · · · ·	ł
XCEPT F	OR RETRE	AT ESTATE, S	SINGLETO	N HTS UF	PER ZO	NE & HU	NTERVIEW	\$ 3,525,136.89	Total	<del> </del>
			İ					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<del></del>
xisting No	Of Lots =	5271	Future Lo	its =	2480	Total =	7751			{
			1	]						ļ
xisting A	ssets	**************************************	1	1			***************************************	\$ 3,525,136.89	Sub-Total	
			1					4 0,020,100.05	Cub-10tal	
distribution	Main In Bri	dgman Rd - Fr	om Acacia	Cct To N	ew Engl	and Highw	227	\$ 221,923.80		ļ
(5359	AC	N326	N339	DUNO	375	945	1986	Ψ 221,920.00	6010000	ļ
\			11000	DONO	373	340	1900		\$ 221,923.80 )	ļ
Distribution	Main In Bri	dgman Rd - Fr	om New E	noland His	abyen T	Dupolly	Donad	6 04 405 05		
(5394	DICL	N367	N371	DUNO	250	105		\$ 61,465.25		ļ
5395	DICL	N371	N372	DUNO	250	140	1990 1990		\$ 16,763.25	ļ
5393	DICL	N339	N367	DUNO	250	140	1990		\$ 22,351.00	
		11000	1	DONO	230	140	1990		\$ 22,351.00 )	
istribution	Main In Du	nolly Road/Wh	ito Avo Er	i	m C4 Ta					
(5057	AC	N28						\$ 185,451.50		
			N52	SHTS	200	100	1965		\$ 9,785.00	
5058	AC	N52	N51	SHTS	200	90	1965		\$ 8,806.50	
5059	AC	N51	N53	SHTS	200	100	1965		\$ 9,785.00	
5365	AC	N53	N380	DUNO	200	625	1965	******	\$ 61,156.25	
5403	AC	N380	N378	DUNO	200	150	1965		\$ 14,677.50	
5404	AC	N378	N375	DUNO	200	130	1965		\$ 12,720.50	
5396	DICL	N372	N373	DUNO	300	30	1995		\$ 5,654.70	·
5398	DICL	N372	N374	DUNO	375	30	1992	in	\$ 7,261.50	
6291	DICL	N373	N248	DUNO	300	295	1995		\$ 55,604.55 )	
				[					00,007.00	
istribution	Main In Ne	wton St - From	Bank St N	lorth To N	ew Engl	and Highw	av	\$ 81,127.95		·
(6306	DICL	N336	N248	DUNO	375	15	1986	7 31,121,00	2.020.75	
5360	AC	N339	N336	DUNO	375	330	1986		\$ 3,630.75   \$ 77.497.20   \$	
			1			330			\$ 77,497.20	
istribution	Main In Sin	npson Tce & E	xtended -F	rom Darlir	naton Rd	To White	Δνα	9 444 272 00		
(5002	UPVC	N2	N3	DARL	300			\$ 141,373.68		
5006	UPVC	N3	N26		300	12	1980		\$ 1,878.72	
5007	UPVC	N26		DARL		82	1980		\$ 12,837.92	
5008	UPVC	N26 N15	N16	DARL	300	80	1980		\$ 12,524.80	
5009	UPVC		N16	DARL	300	120	1980		\$ 18,787.20	
		N15	N20	DARL	300	130	1980	<u></u>	\$ 20,352.80	
5010	UPVC	N20	N21	DARL	300	90	1980		\$ 14,090.40	
5011	UPVC	N21	N23	DARL	300	85	1980		\$ 13,307,60	
5012	UPVC	N23	N25	DARL	300	115	1980		\$ 18,004.40	
5030	UPVC	N2	N27	DARL	300	189	1980		\$ 29,589.84 )	
							***************************************		- 23,005.04 )	
stribution	Main In Da	fington Rd -Fr	om Dunolly	Rd To No	orthern R	ailwav	······································	\$ 228,299.50		
(5409	DICL	N25	N374	DUNO	375	780	1992	v 220,299.30	400 700 **	
6327	DICL	N25	N1123	DARL	450	35			\$ 188,799.00	
6328	AC	N1123					1991		\$ 10,634.75	
		111123	N680	DARL	450	95	1985		\$ 28,865.75 )	
0020			1 1		1					
	Main Cross	Dorlington C 1	T- 0	D						
stribution		Darlington Rd				I		\$ 369,177.75		
	Main From AC DICL	Darlington Rd N680 N25	To Gowrie N1131 N1123	Reservoir GOWR DARL	450 450	1,085 35	1985 1991		\$ 329,677.25 \$ 10,634.75	

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214 1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Replacement	Comment	
Asset ID	Mat'l	Node	Node		Dia	(M)	Constr'd	Cost		
No	Туре	No	No		(MM)			(Assumed CPI increase		
<u> </u>	750.000	<u> </u>						of 3.0%, 6/03 to 6/04)		
From "WA	TER.DB"									************
							** *** /* ************			
6328	AC	N1123	N680	DARL	450	95	1985		\$ 28,865.75 )	
Courte De	i		, ,							
Gowrie Re		J					1940	\$ 1,245,064.00		
*********************		ncrete Reservoir		i					\$ 1,031,030.00	
		lve (estimated)							\$ 15,450.00	
	Land Acqu	iisition (estimate	d)						\$ 180,250.00	
		ad (estimated)							\$ 10,300.00	
(6330	DICL	N1128	N1127	GOWR	375	20	1990		\$ 5,356.00	
6331	RC	N1128	N1127	GOWR	150	20	1920		\$ 2,678.00	
Distribution	n Main Fron	n Intersection W	ith Rix's C	k Main To	McDoug	gall Hill Re	eservoir	\$ 44,384.76		
(5373	AC	N78	N340	MCDO !	200	240	1965		\$ 23,484.00	
6026	AC	N894	N909	MCDO !	200	100	1965		\$ 9,785.00	
6082	AC	N909	N960	MCDO	300	15	1965	***************************************	\$ 2,348,40	
6083	AC	N959	N960	MCDO	300	15	1965	***************************************	\$ 2,348.40	· · · · · · · · · · · · · · · · · · ·
6084	AC	N909	N958	MCDO	300	15	1965		\$ 2,348.40	
6085	AC	N960	N962	MCDO	300	5	1965	***************************************	\$ 782.80	
6086	AC	N961	N909	MCDO	300	21	1965		\$ 3,287.76	· · · · · · · · · · · · · · · · · · ·
	1	· · · · · · · · · · · · · · · · · · ·				61	,,,,,,		3,281.76 ]	
McDougall	I Hill Resen	oir & Pump Stat	ion:					\$ 946,868.70		
	Hill Reserv						1965	y 340,000.70		
		ncrete Reservoi	•			~~~~i	1000		\$ 631,647.50	
		ive (estimated)							to the contract of the contrac	
		isition (estimate	d)					***************************************	\$ 20,600.00	
	Access Po	ad (estimated)	٠,						\$ 206,000.00	
McDougell	Hill Pump	Station:		4			1005		\$ 5,150.00	
		ower for 8.0 L/s	to 60 m =	12 25147			1995			
									\$ 52,571.20	
		= (8.0 x 60 x 1.								
		$10, kW = 2 \times 6.6$		kW)						
		isition (estimate	d)						\$ -	
	Access Ro	ad (estimated)							\$ 5,150.00	
									\$ 25,750.00	
		Site (estimated)								
		Site (estimated)	A							
	Power To S		A 111 A 111							
RETREAT	Power To S	Site (estimated)	OF RETRE	AT with !	50 Futur	e Lots)		\$ 2,050,262.49		
	Power To	ncludes EAST	OF RETRE	AT with !	50 Futur	e Lots)		\$ 2,050,262.49		
	Power To S	ncludes EAST	OF RETRE	i	50 Futur 197	re Lots) Total =	483	\$ 2,050,262,49		
Existing No	ESTATE (i	ncludes EAST		i			483	\$ 2,050,262.49		
	ESTATE (i	ncludes EAST		i			483	\$ 2,050,262.49 \$ 1,919,545.49	Tola	
Existing No	ESTATE (i o Of Lots =	ncludes EAST		i			483		Tola	
Existing No	ESTATE (i	ncludes EAST		i			483	\$ 1,919,545.49	Total Sub-Total	
xisting No	ESTATE (i o Of Lots =	ncludes EAST		s =	197	Total =	1994	\$ 1,919,545.49 \$ 1,900.00	Total  Sub-Total  Pipe to Retreat PS	
xisting No	ESTATE (i o Of Lots =	ncludes EAST		s = RETR RETR	197	Total =	1994 1994	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS	
xisting No	ESTATE (i o Of Lots =	ncludes EAST		s = RETR	197	Total =	1994 1994 2000	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res	
xisting No	ESTATE (i o Of Lots =	ncludes EAST		s = RETR RETR	197	Total =	1994 1994	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS	
xisting No	ESTATE (i o Of Lots =	ncludes EAST		s = RETR RETR	197 200 250	Total = 10 10 1,150	1994 1994 2000 2000	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)	
existing No	ESTATE (i o Of Lots =	ncludes EAST 286	Future Lot	RETR RETR RETR RETR	200 250 200	Total = 10 1,150 210	1994 1994 2000 2000	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119,00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe) Retreat Road	
xisting No	ESTATE (i  O Of Lots =  UPVC  UPVC	ncludes EAST  286  N963 N969	Future Lot  N969 N970	RETR RETR RETR RETR RETR RETR	200 250 200 200 200	Total = 10 1,150 210 238	1994 1994 2000 2000 1986 1986	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20	Total  Sub-Total  Pipe to Retreat PS Retreal PS Pipe betw Retr PS & Retreat Res Refreat Reservoir (2.0 ML standpipe) Retreat Road Retreat Road	
existing Notes that the content of t	ESTATE (i  O Of Lots =  UPVC  UPVC  UPVC	N963 N969 N970	N969 N970 N971	RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200	Total = 10 10 1,150 210 238 205	1994 1994 2000 2000 1986 1986 1986	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449,50	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res. Retreat Reservoir (2.0 ML standpipe) Retreat Road Retreat Road Retreat Road Retreat Road	
Existing No Existing A 6087 6088 6089	ESTATE (I  O Of Lots =  Assets  UPVC  UPVC  UPVC  UPVC	N963 N969 N970 N971	N969 N970 N971 N978	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200	Total =  10  1,150  210  238  205  205	1994 1994 2000 2000 1986 1986 1986 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50	Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe) Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road	
6087 6088 6089 6096	Power To S  ESTATE (i)  O Of Lots =  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC	N963 N969 N970 N971 N978	N969 N970 N971 N978 N979	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200	Total = 10 1,150 210 238 205 205 190	1994 1994 2000 2000 1986 1986 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,668.20 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road	
6087 6088 6089 6096 6097 6098	Power To S  ESTATE (i)  O Of Lots =  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC	N963 N963 N969 N970 N971 N978 N979	N969 N970 N971 N971 N979 N980	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 10 1,150 210 238 205 205 190 180	1994 1994 2000 2000 1986 1986 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 24,102.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road	
6087 6088 6089 6096 6096 6098 6099	Power To S  ESTATE (i)  O of Lots =  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC	N963 N963 N969 N970 N971 N978 N979 N980	N969 N970 N971 N978 N978 N978 N980 N980 N981	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 10 1,150 210 238 205 205 190 180 175	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 24,102.00 \$ 23,432.50	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road Retreat Road	
6087 6088 6089 6096 6097 6098 6099 6100	Power To S  ESTATE (i)  O Of Lots =  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC  UPVC	N963 N969 N970 N971 N978 N979 N980 N980	N969 N970 N971 N978 N979 N981 N981 N982	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 11,150 210 238 205 205 190 180 175 140	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 24,102.00 \$ 23,432.50	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6088 6089 6096 6097 6098 6099 6100 6100	ESTATE (I) O Of Lots = UPVC UPVC UPVC UPVC UPVC UPVC UPVC UPVC	N963 N963 N969 N970 N971 N978 N979 N980 N981	N969 N970 N971 N978 N979 N980 N981 N982 N984	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 10 1,150 210 238 205 205 190 180 175 140 218	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 24,102.00 \$ 23,432.50 \$ 29,190.20 \$ 29,190.20	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roser Retreat Road	
6087 6088 6089 6097 6098 6099 6100 6102 6103	Power To S  ESTATE (i)  O of Lots =  UPVC	N963 N963 N970 N970 N971 N978 N979 N980 N981 N984	N969 N970 N971 N978 N979 N980 N981 N982 N984	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 10 1,150 210 238 205 205 190 180 175 140 218 260	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 22,449.50 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6097 6098 6100 6102 6103 6104	Power To S  ESTATE (i)  O Of Lots =  UPVC	N963 N963 N969 N970 N971 N978 N979 N980 N980 N981 N982 N984 N985	N969 N970 N971 N978 N979 N981 N981 N982 N984 N985	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 1150 210 238 205 190 180 218 280 218 260 155	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,800.20 \$ 29,190.20 \$ 29,190.20 \$ 20,754.50 \$ 20,754.50	Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe) Retreat Road	
6087 6088 6089 6096 6097 6098 6099 6100 6102 6103 6104 6104	Power To S  ESTATE (II  O Of Lots =  UPVC	N963 N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N984 N985 N986	N969 N970 N971 N978 N979 N980 N981 N982 N984 N984 N985 N986 N988	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10  1,150  210 238 205 205 190 180 175 140 218 260 155 150	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 22,410.20 \$ 24,102.00 \$ 23,432.50 \$ 29,190.20 \$ 34,814.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 20,085.00	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roson Retreat Road	
6087 6088 6088 6088 6096 6096 6098 6099 6100 6102 6103 6104 6107 6108	Power To S  ESTATE (I)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N981 N982 N984 N982 N984 N985 N986 N989	N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 1,150 210 230 205 190 175 140 218 260 155 150 210	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 29,190.20 \$ 29,190.20 \$ 20,754.50 \$ 20,085.00 \$ 28,119.00 \$ 29,190.20	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6097 6098 6099 6100 6102 6103 6104 6107 6108 6111	Power To S  ESTATE (i)  O Of Lots =  UPVC	N963 N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989	N969 N970 N971 N971 N979 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 280 155 155 150 210 240	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 28,119.00 \$ 28,119.00	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roson Retreat Road	
6087 6088 6089 6096 6096 6099 6100 6102 6103 6104 6107 6108 6111	Power To S  ESTATE (II  O OF Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N982 N984 N986 N989 N989 N989	N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N988 N989 N990 N993	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 155 150 210 240 240 350	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 20,085.00 \$ 28,119.00 \$ 22,136.00 \$ 23,136.00 \$ 46,865.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6099 6100 6100 6100 6101 6104 6104 6107 6108 6111 6112 6113	Power To S  ESTATE (I)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N980 N981 N982 N984 N984 N985 N986 N989 N990 N990 N993	N969 N970 N971 N974 N978 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993 N993 N995	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total = 10 10 1,150 210 238 205 205 190 175 140 218 260 155 150 210 240 270 270	1994 1994 2000 2000 1986 1986 1986 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 22,136.00 \$ 22,136.00 \$ 22,136.00 \$ 22,136.00 \$ 46,865.00 \$ 44,496.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6099 6099 6100 6100 6102 6103 6104 6107 6108 6111 6111 6111 6111	Power To S  ESTATE (i)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N986 N989 N990 N993 N990 N993	N969 N970 N971 N971 N979 N980 N981 N982 N984 N986 N986 N986 N989 N990 N993 N995 N995 N998	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 200 155 150 210 240 350 270 115	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 22,4102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 20,085.00 \$ 20,085.00 \$ 20,085.00 \$ 32,136.00 \$ 46,865.00 \$ 44,496.00 \$ 44,960.00 \$ 44,960.00 \$ 18,952.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6096 6099 6100 6102 6103 6104 6107 6108 6111 6112 6113 6114 6132	Power To 3  ESTATE (i)  O Of Lots =  UPVC	N963 N969 N970 N971 N971 N978 N981 N982 N984 N982 N984 N986 N989 N990 N990 N993 N990 N993 N996 N990 N993 N996 N996 N996 N996 N990 N990 N990 N990	N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N989 N990 N993 N995 N995 N996 N1915	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 205 180 175 140 218 260 155 150 210 240 240 240 247 270 115	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 28,119.00 \$ 21,360.00 \$ 21,360.00 \$ 21,360.00 \$ 24,40.00 \$ 20,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 24,400.00 \$ 24,100.00 \$ 24,000.00 \$	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6088 6089 6099 6100 6102 6104 6104 6107 6108 61111 6112 6113 6114 6113 6113	Power To S  ESTATE (I)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N982 N984 N985 N989 N990 N990 N990 N990 N993 N996 N646 N1004 N1004	N969 N970 N971 N978 N979 N981 N982 N984 N985 N986 N989 N990 N993 N990 N993 N995 N995 N996 N1015	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 218 260 155 150 240 350 270 115 170 160	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 20,085.00 \$ 20,085.00 \$ 34,814.00 \$ 20,085.00 \$ 32,136.00 \$ 18,952.00 \$ 18,952.00 \$ 18,952.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6099 6099 6099 6100 6102 6103 6104 6107 6111 6112 6113 6114 6132 6133	Power To S  ESTATE (i)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993 N990 N993 N990 N993 N990 N990	N969 N970 N971 N971 N979 N980 N981 N985 N986 N986 N989 N990 N993 N995 N995 N995 N996 N1015 N1016 N646	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 205 180 175 140 218 260 155 150 210 240 240 240 247 270 115	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 20,190.20 \$ 20,190.20 \$ 23,432.50 \$ 20,085.00 \$ 22,136.00 \$ 22,136.00 \$ 22,136.00 \$ 18,952.00 \$ 44,495.00 \$ 21,190.00 \$ 22,136.00 \$ 28,119.00 \$ 34,48,50 \$ 34,48,50 \$ 34,85,50 \$ 44,85,50 \$ 18,952.00 \$ 18,952.00 \$ 18,952.00 \$ 18,952.00 \$ 18,952.00 \$ 18,952.00 \$ 18,955.00 \$ 18,955.00	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6096 6096 6099 6100 6102 6103 6104 6107 6108 6111 6112 6113 6114 6132 6133 6247	Power To 3  ESTATE (II   10 OF LOTS   10 OF	N963 N963 N969 N970 N971 N978 N981 N982 N984 N985 N986 N986 N989 N999 N993 N990 N993 N990 N993 N996 N1004 N1015 N1004 N1004 N1004	N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N988 N990 N993 N995 N995 N995 N995 N995 N905 N910 N910 N910 N910 N910 N910 N910 N910	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 218 260 155 150 240 350 270 115 170 160	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 173,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 20,255.00 \$ 20,255.00 \$ 20,255.00 \$ 20,255.00 \$ 21,190.00 \$	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6099 6099 6100 6102 6104 6107 6108 6111 6112 6113 6114 6132 6133 6133 6247 6207	Power To S  ESTATE (I)  O Of Lots =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993 N990 N993 N990 N993 N990 N990	N969 N970 N971 N971 N979 N980 N981 N985 N986 N986 N989 N990 N993 N995 N995 N995 N996 N1015 N1016 N646	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 200 215 150 210 240 350 270 115 170 160 160 245	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1998 199	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 22,441.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 28,119.00 \$ 21,136.00 \$ 21,136.00 \$ 44,496.00 \$ 18,385.50 \$ 17,304.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 40,376.00 \$ 41,410.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe)  Retreat Road	
6087 6088 6089 6096 6096 6096 6096 6100 6102 6103 6104 6107 6108 6111 6112 6113 6114 6132 6133 6247	Power To 3  ESTATE (II   10 OF LOTS   10 OF	N963 N963 N969 N970 N971 N978 N981 N982 N984 N985 N986 N986 N989 N999 N993 N990 N993 N990 N993 N996 N1004 N1015 N1004 N1004 N1004	N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N988 N990 N993 N995 N995 N995 N995 N995 N905 N910 N910 N910 N910 N910 N910 N910 N910	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 218 260 155 150 240 350 270 115 170 160 245 140	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 20,085.00 \$ 20,085.00 \$ 34,414.00 \$ 20,085.00 \$ 32,136.00 \$ 18,352.00 \$ 18,355.00 \$ 18,355.00 \$ 18,355.00 \$ 17,304.00 \$ 17,304.00 \$ 15,141.00 \$ 18,385.50	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road Wattle Ponds Road	
6087 6088 6089 6099 6099 6100 6102 6103 6104 6104 6107 6111 6112 6113 6114 6133 6133 6247 6207	Power To S  ESTATE (I)  O Of Lots =  UPVC	N963 N963 N969 N970 N971 N978 N978 N981 N982 N984 N985 N986 N990 N993 N990 N993 N990 N990 N993 N990 N990	N969 N970 N971 N978 N979 N980 N981 N982 N984 N986 N989 N990 N993 N995 N995 N995 N1015 N1016 N983 N1089 N1089	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 200 210 250 210 240 350 270 115 170 160 160 170 170 170 170 170 170 170 170 170 17	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1998 1990 1990 1990	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 25,441.00 \$ 23,432.50 \$ 18,746.00 \$ 28,190.20 \$ 34,814.00 \$ 20,085.00 \$ 28,119.00 \$ 20,085.00 \$ 18,952.00 \$ 18,952.00 \$ 18,955.00 \$ 17,304.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 17,304.00 \$ 18,955.00 \$ 17,304.00 \$ 18,955.00 \$ 17,304.00 \$ 18,955.00 \$ 17,305.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00 \$ 17,305.00 \$ 18,955.00 \$ 18,955.00 \$ 17,305.00 \$ 18,955.00 \$ 18,955.00 \$ 18,955.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Retreat Roa	
6087 6088 6089 6096 6096 6096 6096 6100 6102 6103 6104 6107 6108 6111 6112 6113 6114 6114 6132 6133 6131 6132 6133 6247 6101 6207 6208	Power To S  ESTATE (II  O OF LOIS =  UPVC	N963 N963 N969 N970 N971 N978 N987 N981 N982 N984 N985 N986 N986 N989 N990 N993 N990 N993 N990 N993 N990 N993 N990 N993 N996 N1004 N1015 N1004 N1015 N1004 N1015 N1004 N1018 N1004 N1018 N	N969 N970 N971 N978 N980 N980 N981 N982 N986 N986 N989 N990 N993 N995 N995 N995 N1015 N1016 N646 N983 N1088 N983 N1088	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 155 150 210 240 240 240 240 170 160 241 170 160 245 140 170	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1998 199	\$ 1,919,545.49 \$ 1,900,00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119,00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 22,440.20 \$ 23,432.50 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 29,190.20 \$ 34,814.00 \$ 129,190.20 \$ 34,814.00 \$ 129,190.20 \$ 34,814.00 \$ 129,190.20 \$ 34,814.00 \$ 17,450.00 \$ 18,385.50 \$ 17,304.00 \$ 18,385.50 \$ 17,304.00 \$ 18,385.50 \$ 17,304.00 \$ 18,385.50 \$ 115,141.00 \$ 18,385.50 \$ 115,141.00 \$ 18,385.50 \$ 115,141.00 \$ 18,385.50	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road	
6087 6088 6089 6099 6099 6100 6102 6103 6104 6104 6107 6108 6111 6112 6113 6114 6133 6247 6207 6208 6209 6208	POWER TO S  ESTATE (I)  O OF LOIS =  UPVC	N963 N969 N970 N971 N978 N979 N981 N982 N984 N985 N986 N989 N990 N993 N990 N990 N990 N990 N901 N904 N1004 N1004 N1004 N1004 N1004 N1004 N1009 N1099 N1099	N969 N970 N971 N978 N979 N981 N982 N984 N985 N986 N990 N990 N990 N990 N990 N995 N996 N1016 N646 N989 N1016 N646 N989 N108 N108 N108 N108 N108 N108 N108 N108	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 218 260 155 150 240 350 270 115 170 160 245 140 170	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 22,7449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 32,136.00 \$ 44,66.00 \$ 18,365.00 \$ 16,222.20 \$ 18,385.50 \$ 16,222.50 \$ 18,385.50	Total  Sub-Total  Pipe to Retreat PS Retreat PS Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road	
6087 6088 6089 6099 6099 6100 6100 6102 6103 6104 6107 6113 6114 6113 6114 6133 6247 6101 6207 6208 6209 6209 6210	POWER TO S  POWER TO S  O OF LOTS =  UPVC	N963 N963 N969 N970 N971 N978 N978 N981 N982 N984 N985 N986 N990 N993 N990 N993 N990 N993 N990 N990	N969 N970 N971 N978 N980 N980 N981 N988 N986 N986 N988 N998 N998 N1015 N1016 N983 N1089 N644 N1091 N1091	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 270 240 350 270 115 170 160 245 140 170 150 120	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1990 1990 1990	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,940.00 \$ 18,952.00 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 18,985.00 \$ 18,985.50 \$ 18,385.50 \$ 11,304.00 \$ 18,385.50 \$ 16,222.50 \$ 18,385.50 \$ 11,978.00 \$ 18,385.50 \$ 12,978.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road	
6087 6088 6088 6088 6089 6096 6097 6100 6102 6103 6104 6107 6108 6111 6111 6112 6113 6132 6133 6134 6136 6247 6208 6209 6209 6210 6221	POWER TO S  ESTATE (II  O OF LOIS =  UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993 N990 N993 N996 N1004 N1015 N1009 N1091 N1091 N1093 N1090	N969 N970 N971 N978 N979 N980 N980 N981 N982 N984 N985 N986 N989 N990 N993 N995 N995 N995 N995 N996 N1015 N1016 N646 N983 N1089 N644 N1091 N1093 N1093	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 205 190 180 175 140 218 260 210 210 240 250 170 160 245 170 160 245 170 170 160 120 170 120 170	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1998 199	\$ 1,919,545.49 \$ 1,900,00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 28,119,00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 22,440.20 \$ 23,432.50 \$ 24,102.00 \$ 23,432.50 \$ 29,190.20 \$ 34,814.00 \$ 29,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 28,119.00 \$ 34,814.00 \$ 18,385.50 \$ 17,304.00 \$ 18,385.50 \$ 11,341.00 \$ 18,385.50 \$ 11,2978.00 \$ 18,385.50 \$ 11,2978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50	Sub-Total  Pipe to Retreat PS Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Roservoir (2.0 ML standpipe) Retreat Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road Wattle Ponds Road	
6087 6088 6089 6096 6096 6099 6100 6102 6104 6104 6107 6108 6111 6114 6113 6114 6133 6247 6101 6208 62208 62208 62208 62201 6211 6246 6393	POWER TO S  ESTATE (I)  O OF LOIS =  UPVC	N963 N969 N970 N971 N978 N978 N978 N981 N982 N984 N985 N986 N986 N986 N990 N990 N990 N990 N990 N990 N990 N99	N969 N970 N970 N971 N978 N978 N981 N982 N984 N985 N986 N989 N990 N990 N990 N990 N990 N990 N990	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 155 150 240 350 270 115 170 160 245 140 170 150 120 166	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 79,360.00 \$ 195,500.00 \$ 473,662.02 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 22,7449.50 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 22,190.20 \$ 34,814.00 \$ 20,754.50 \$ 20,085.00 \$ 32,136.00 \$ 44,66.00 \$ 18,352.00 \$ 18,352.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,362.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 18,365.00 \$ 19,360.00 \$ 18,365.00 \$ 19,978.00 \$ 10,815.00 \$ 10,815.00 \$ 10,815.00 \$ 10,815.00	Total  Sub-Total  Pipe to Retreat PS Retreal PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road	
6087 6088 6088 6089 6096 6097 6098 6099 6100 6102 6103 6104 6107 6114 6111 6112 6113 6114 6133 6247 6101 6207 6208 6209 6209 6209 6210 6211 6246 6393	POWER TO SETATE (II) O OF LOIS = UPVC UPVC UPVC UPVC UPVC UPVC UPVC UPVC	N963 N969 N970 N971 N978 N979 N980 N981 N982 N984 N985 N986 N986 N989 N990 N993 N990 N993 N996 N1004 N1015 N1009 N1091 N1091 N1093 N1090	N969 N970 N971 N978 N979 N980 N980 N981 N982 N984 N985 N986 N989 N990 N993 N995 N995 N995 N995 N996 N1015 N1016 N646 N983 N1089 N644 N1091 N1093 N1093	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 270 240 350 270 115 170 160 170 170 170 170 170 170 170 170 170 17	1994 1994 2000 2000 2000 1986 1986 1988 1988 1988 1988 1988 1990 1990 1990	\$ 1,919,545.49 \$ 1,900.00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 31,868.20 \$ 28,119.00 \$ 31,868.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,746.00 \$ 23,432.50 \$ 18,746.00 \$ 18,952.00 \$ 18,952.00 \$ 18,955.00 \$ 18,955.00 \$ 18,385.50 \$ 16,222.50 \$ 18,385.50 \$ 112,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 11,9978.00 \$ 115,141.00	Total  Sub-Total  Pipe to Retreat PS Retreat PS Pipe betw Retr PS & Retreat Res Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road	
6087 6088 6089 6096 6097 6098 6099 6100 6102 6103 6111 6112 6113 6114 6133 6247 6207 6208 6209 6209 6209 6201 6211 6246 6393	POWER TO S  ESTATE (I)  O OF LOIS =  UPVC	N963 N969 N970 N971 N978 N978 N978 N981 N982 N984 N985 N986 N986 N986 N990 N990 N990 N990 N990 N990 N990 N99	N969 N970 N970 N971 N978 N978 N981 N982 N984 N985 N986 N989 N990 N990 N990 N990 N990 N990 N990	RETR RETR RETR RETR RETR RETR RETR RETR	200 250 200 200 200 200 200 200 200 200	Total =  10 1,150 210 238 205 205 190 180 175 140 218 260 155 150 240 350 270 115 170 160 245 140 170 150 120 166	1994 1994 2000 2000 1986 1986 1988 1988 1988 1988 1988 1988	\$ 1,919,545.49 \$ 1,900,00 \$ 79,360.00 \$ 195,500.00 \$ 195,500.00 \$ 28,119,00 \$ 23,1368.20 \$ 27,449.50 \$ 27,449.50 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 24,102.00 \$ 23,432.50 \$ 18,746.00 \$ 29,190.20 \$ 34,814.00 \$ 29,190.20 \$ 34,814.00 \$ 129,190.20 \$ 34,814.00 \$ 129,190.20 \$ 34,814.00 \$ 17,960.00 \$ 18,385.50 \$ 17,304.00 \$ 18,385.50 \$ 11,978.00 \$ 18,385.50 \$ 11,978.00 \$ 18,385.50 \$ 12,978.00 \$ 18,385.50 \$ 12,978.00 \$ 10,815.00	Total  Sub-Total  Pipe to Retreat PS Retreal PS Pipe betw Retr PS & Retreat Res Retreat Reservoir (2.0 ML standpipe)  Retreat Road Wattle Ponds Road	

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

	Pipe	U/S	D/S	Locality		Length	Year	Replacement	Comment	
Asset ID No	Mat'i Type	Node No	Node		Dia	(M)	Constr'd	Cost		
INU	rype	INO	No		(MM)			(Assumed CPI increase		ļ
From "WAT	ΓER.DB"				<u> </u>			of 3.0%, 6/03 to 6/04)		-
	LIBYA									
6110 RNAN002	UPVC UPVC	N992	N991	RETR	150	25	1990		Brigadier Hammett Rd	.i
RNAN003	UPVC			RETR	150	1,271	2000		Brigadier Hammett Rd	
6122	UPVC	N1004	N1005	RETR	150	194	2003	\$ 20,981.10	Brigadier Hammett Rd	
6126	UPVC	N1004	N1003	RETR	150 150	230 160	1990		Morris Road	ļ
6127	UPVC	N1003	N1010	RETR	150	210	1990 1992		Morris Road	
6128	UPVC	N1010	N1013	RETR	150	200	1992		Morris Road Morris Road	
6129	UPVC	N1011	N1012	RETR	150	170	1992		Morris Road	
6130	UPVC	N1012	N1013	RETR	150	95	1992		Nawaday Way	·
6131	UPVC	N1012	N1014	RETR	150	125	1992		Nawaday Way	
6241	UPVC	N1013	N504	RETR	150	74	1995		Nawaday Way	<del></del>
RNAN004	UPVC		·	RETR	150	690	2003		Nawaday Way	
6242	UPVC	N1014	N643	RETR	150	95	1992		Nawaday Way	ł
6243	UPVC	N507	N526	RETR	150	185	1995		Nawaday Way	
6245	UPVC	N507	N643	RETR	150	25	1995		Nawaday Way	1
6248	UPVC	N963	N964	RETR	200	4	1986		Bridgman & Retreat Rd Intersect'n	
6249	UPVC	N964	N965	RETR	200	6	1986	\$ 803,40	Bridgman & Retreat Rd Intersectin	1
6250	UPVC	N965	N346	RETR	200	6	1986	\$ 803.40	Bridgman & Retreat Rd Intersect'n	1
6251	DICL	N965	N342	RETR	150	15	1986	\$ 2,008.50	Bridgman & Retreat Rd Intersect'n	1
6252	DICL	N964	N343	RETR	150	15	1986		Bridgman & Retreat Rd Intersect'n	1
Carlon- A				ļ						
Future Ass	ers		+	<b> </b>		A		\$ 130,717.00	Sub-Total	
	UPVC			RETR	150	1,040	2005-13	\$ 74.984.00	From Retreat Rd To Gresham	ļ
	UPVC			RETR	150	573	2005-13		Remainder of Brigadiere Hammett	
	UPVC			RETR	150	200	2005-13		Remainder of Wattle Ponds Road	
	~			1			2000 10	(4,420.00	remailder of wattle / Olius Road	ļ
	1						***************************************			· · · · · · · · · · · · · · · · · · ·
PINNACLE	ESTATE							\$ 580,621.30	Total	
										1
Existing No	Of Lots =	0	Future Lo	ts =	500	Total =	500			1
										1
Existing As	ssets							\$ 65,075.40	Sub-Total	1
	LIBUO		.ļ							
	UPVC				200	304	2004		Gardner Cct, Trunk	
	UPVC				200	182	2004	\$ 24,369.80	McMahon Way, Trunk	
Future Ass	ote									ļ
Tutuic Ass	reto							\$ 515,545.90	Sub-Total	
	UPVC				250	394	2005-19	\$ 68,989,40	Gardner Cct, Trunk	
	UPVC				200	545	2005-19		Gardner Cct, Trunk Gardner Cct, Trunk	
	UPVC				200	2,790	2005-19		McMahon Way, Trunk	· [
			1	• · · · · · · · · · · · · · · · · · · ·	200	2,700	2003-13	370,001.00	MCManori way, Truffk	
SINGLETO	AL HEICHTO									-
	IN LEIGHTS	UPPER ZOI	VE					\$ 328,673.00	Total	
			I					\$ 328,673.00	Total	
Existing No		UPPER ZON	NE Future Lo	(s =	0	Total =	707	\$ 328,673.00	Total	
Existing No	Of Lots =		I	ts =	0	Total =	707			
Existing No Existing as	Of Lots =		I	(S =	O	Total =	707	\$ 328,673.00 \$ 328,673.00		
1	Of Lots =	707	Future Lo					\$ 328,673.00	Sub-Total	
Existing as	o Of Lots =	707 N160	Future Lo	SHTS	200	150	1981	\$ 328,673.00 \$ 24,720.00	Sub-Total Gardner Circuit	
Existing as	Of Lots =	707	Future Lo					\$ 328,673.00 \$ 24,720.00	Sub-Total	
5174 5175 5186	Of Lots = Ssets DICL DICL AC	707 N160	Future Lo	SHTS	200	150	1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00	Sub-Total Gardner Circuit Gardner Circuit	
5174 5175 5186 5187	Of Lots =  Ssets  DICL DICL AC AC	707 N160 N211	Future Lo N211 N212	SHTS SHTS	200 200	150 80	1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30	Sub-Total Gardner Circuit	
5174 5175 5186 5187 5188	DICL DICL AC AC UPVC	707 N160 N211 N224	Future Lo N211 N212 N223	SHTS SHTS SHTS	200 200 250	150 80 143	1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit	
5174 5175 5186 5187 5188 5188	DICL DICL AC AC UPVC UPVC	707 N160 N211 N224 N223 N221 N220	N211 N212 N223 N221	SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250	150 80 143 150	1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00	Sub-Total Gardner Circuit Gardner Circuit Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190	DICL DICL AC AC UPVC UPVC UPVC	707 N160 N211 N224 N223 N221 N220 N177	N211 N212 N223 N223 N221 N220 N177 N178	SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200	150 80 143 150 90	1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit	
5174 5175 5186 5187 5188 5188 5189	DICL DICL AC AC UPVC UPVC	707 N160 N211 N224 N223 N221 N220	N211 N212 N223 N221 N220 N177	SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200	150 80 143 150 90 120	1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50	Sub-Total  Gardner Circuit Gardner Circuit  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190 6293 5185	DICL DICL AC UPVC UPVC UPVC AC AC	707 N160 N211 N224 N223 N221 N220 N177 N224 N228	N211 N212 N223 N221 N220 N177 N178 N246 N224	SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200	150 80 143 150 90 120 95	1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,088.00 \$ 12,720.50 \$ 1,225.70	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5265	DICL DICL AC AC UPVC UPVC UPVC AC AC AC DICL	707  N160 N211  N224 N223 N221 N220 N177 N224 N228 N251	N211 N212 N223 N221 N220 N177 N178 N246 N224 N250	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200 200 200 250 250	150 80 143 150 90 120 95 7 60	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 1,255.70 \$ 10,506.00 \$ 4,017.00	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5265 5266	Of Lots =  Ssets  DICL DICL AC AC UPVC UPVC UPVC AC AC AC DICL DICL DICL	707 N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173	N211 N212 N223 N221 N220 N177 N178 N246 N224 N250 N251	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200 200 200 250 250	150 80 143 150 90 120 95 7 7 7 15 60 80	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 12,051.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit	
5174 5175 5186 5187 5188 5188 5189 6190 6293 5185 5265 5266 5267	See See See See See See See See See See	707  N160 N211  N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173	N211 N212 N223 N221 N220 N177 N178 N246 N224 N251 N251	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 250	150 80 143 150 90 120 95 7 60 15 80 65	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 1,225.70 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 14,059.50	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit	
5174 5175 5186 5187 5188 5189 5189 6190 6293 5185 5265 5266 5267 5268	Seets  DICL DICL AC AC UPVC UPVC UPVC AC AC AC DICL DICL DICL DICL DICL DICL DICL DIC	707 N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173	N211 N212 N223 N221 N220 N177 N178 N246 N224 N250 N251	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 250	150 80 143 150 90 120 95 7 60 15 80 65	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 11,059.50 \$ 11,059.50	Sub-Total  Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5265 5266 5267 5268 SHUZ001	DICL DICL DICL AC AC UPVC UPVC AC AC AC DICL DICL DICL DICL DICL DICL DICL DIC	707 N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N251	N211 N212 N223 N221 N220 N177 N178 N246 N224 N251 N228 N252	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200 200 250 250 375 300 300 250	150 80 143 150 90 120 95 7 7 60 15 80 65 80	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 14,059.50 \$ 17,304.00 \$ 52,530.00	Sub-Total  Gardner Circuit	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5266 5267 5268 5HUZ001 5243	See See See See See See See See See See	707  N160 N211  N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N251 N187	N211 N212 N223 N221 N220 N177 N178 N246 N250 N251 N250 N251 N228 N252 N252	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200 200 200 250 250	150 80 143 150 90 120 95 7 60 15 80 65 80	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 1,225.70 \$ 1,225.70 \$ 1,2050.00 \$ 4,017.00 \$ 4,017.00 \$ 17,304.00 \$ 12,551.00 \$ 12,051.00	Sub-Total  Gardner Circuit Cardner Circuit Cardner Circuit Cardner Circuit Lachan Avenue	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5265 5266 5266 5267 5268 5HUZ0011 5244	Seets  DICL DICL AC AC UPVC UPVC AC AC DICL DICL DICL DICL UPVC UPVC AC DICL DICL DICL DICL UCL DICL DICL DICL DICL UCL DICL DICL DICL DICL DICL DICL DICL DI	707  N160 N211  N224 N223 N221 N220 N177 N224 N251 N1173 N1173 N1173 N1251  N187 N227	N211 N212 N223 N221 N220 N177 N178 N246 N250 N251 N228 N252 N227 N226	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 250 200 200 250 250 375 300 300 300 250 250 250	150 80 143 150 90 120 95 7 60 15 80 65 80 300 90	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 17,304.00 \$ 52,530.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit  Lachlan Avenue  Lachlan Avenue	
5174 5175 5186 5187 5188 5189 6190 6293 5185 5266 5267 5268 5267 5268 5267 5268 5243 5243 5244 5245	SSETS  DICL DICL DICL AC AC UPVC UPVC UPVC AC AC DICL DICL DICL DICL DICL DICL DICL DIC	707  N160 N211  N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N1251 N187 N227 N226	N211 N212 N223 N221 N220 N177 N178 N246 N226 N251 N251 N228 N252 N252 N252 N252 N252 N252 N252	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 375 300 300 250 250 200 200 200	150 80 143 150 90 120 95 7 60 15 80 65 80 90 90 90	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 14,059.50 \$ 17,304.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 13,746.00	Sub-Total  Gardner Circuit Lachlan Avenue Lachlan Avenue	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5265 5266 5267 5268 5267 5268 5245 5244 5244 5244 5245 5246	See See See See See See See See See See	707  N160 N211  N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N251  N187 N227 N226 N226 N225	N211 N212 N223 N221 N220 N177 N178 N246 N250 N251 N250 N251 N228 N252 N252 N252 N227 N226 N227 N226 N224	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 375 300 300 250 200 200 200 200	150 80 143 150 90 120 95 7 7 60 15 80 65 80 90 90 90 90 18 80	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 1,225.70 \$ 1,225.70 \$ 1,225.70 \$ 1,2050.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Lachan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5285 5286 5266 5267 5268 5HUZ0011 5244 5245 5246 5246 5246 5246	Seets  DICL DICL AC AC UPVC UPVC UPVC DICL DICL DICL DICL UPVC UPVC UPVC UPVC UPVC UPVC UPVC UPVC	N160 N211 N224 N223 N221 N220 N177 N224 N251 N1173 N251 N1173 N251 N187 N227 N226 N227 N226 N227 N226 N227	N211 N212 N223 N221 N220 N177 N178 N246 N250 N250 N251 N228 N252 N227 N226 N224 N224 N224 N224 N224 N224 N224	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 375 300 300 300 250 200 200 200 200 200 200	150 80 143 150 90 120 95 7 7 15 80 80 300 90 90 90 90 90	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,720.50 \$ 1,225.70 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue	
5174 5175 5186 5187 5188 5189 6190 6293 5185 5265 5266 5267 5268 5267 5268 5244 5243 5244 5245 5246 5236	SSETS  DICL DICL DICL AC AC UPVC UPVC AC AC DICL DICL DICL DICL DICL DICL DICL DIC	N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N1173 N251 N187 N251 N187 N227 N226 N225 N193 N193	N211 N212 N223 N221 N220 N177 N178 N246 N225 N251 N225 N251 N228 N252 N252 N227 N227 N224 N224 N224 N224 N224 N22	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 250 250 250 200 200 200 200 250 375 300 300 250 250 200 200 200 200 200 200	150 80 143 150 90 120 95 7 7 60 15 80 65 80 90 90 90 90 90 77	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,220.50 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue	
5174 5175 5186 5187 5188 5189 5190 6293 5185 5285 5286 5266 5267 5268 5HUZ0011 5244 5245 5246 5246 5246 5246	Seets  DICL DICL AC AC UPVC UPVC UPVC DICL DICL DICL DICL UPVC UPVC UPVC UPVC UPVC UPVC UPVC UPVC	N160 N211 N224 N223 N221 N220 N177 N224 N251 N1173 N251 N1173 N251 N187 N227 N226 N227 N226 N227 N226 N227	N211 N212 N223 N221 N220 N177 N178 N246 N250 N250 N251 N228 N252 N227 N226 N224 N224 N224 N224 N224 N224 N224	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 200 250 250 200 200 200 250 250 375 300 300 300 250 200 200 200 200 200 200	150 80 143 150 90 120 95 7 7 15 80 80 300 90 90 90 90 90	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 12,205.00 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 25,2530.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 10,712.00 \$ 12,051.00	Sub-Total  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Gardner Circuit  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue  Lachlan Avenue	
5174 5175 5186 5187 5188 5189 6190 6293 5185 5266 5267 5268 5267 5268 5243 5244 5244 5245 5246 5236	SSETS  DICL DICL DICL AC AC UPVC UPVC AC AC DICL DICL DICL DICL DICL DICL DICL DIC	N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N1173 N251 N187 N251 N187 N227 N226 N225 N193 N193	N211 N212 N223 N221 N220 N177 N178 N246 N225 N251 N225 N251 N228 N252 N252 N227 N227 N224 N224 N224 N224 N224 N22	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 250 250 250 200 200 200 200 250 375 300 300 250 250 200 200 200 200 200 200	150 80 143 150 90 120 95 7 7 60 15 80 65 80 90 90 90 90 90 77	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,220.50 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue	
5174 5175 5186 5187 5188 5189 6190 6293 5185 5266 5266 5267 5268 5266 5267 5268 5244 5243 5244 5245 5246 5235 5235	See See See See See See See See See See	N160 N211 N224 N223 N221 N220 N177 N224 N228 N251 N1173 N1173 N1173 N251 N187 N251 N187 N227 N226 N225 N193 N193	N211 N212 N223 N221 N220 N177 N178 N244 N250 N251 N228 N252 N227 N226 N224 N194 N186 N187	SHTS SHTS SHTS SHTS SHTS SHTS SHTS SHTS	200 250 250 250 200 200 200 200 250 375 300 300 250 250 200 200 200 200 200 200	150 80 143 150 90 120 95 7 7 60 15 80 65 80 90 90 90 90 90 77	1981 1981 1981 1981 1981 1981 1981 1981	\$ 328,673.00 \$ 24,720.00 \$ 13,184.00 \$ 25,039.30 \$ 26,265.00 \$ 12,051.00 \$ 16,068.00 \$ 12,220.50 \$ 10,506.00 \$ 4,017.00 \$ 17,304.00 \$ 17,304.00 \$ 52,530.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 19,740.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00	Sub-Total  Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Gardner Circuit Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue Lachlan Avenue	

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Replacement	Comment	
Asset ID	Mat'l	Node	Node	1	Dia	(M)	Constr'd	Cost	Comment	
No	Туре	No	No		(MM)	i		(Assumed CPI increase		
				1	<u> </u>			of 3.0%, 6/03 to 6/04)		
From "WA	ATER.DB"		ļ		ļ	<u> </u>				
Existing N	io Of Lots =	1028	Future Lo	ots =	0	Total =	1028	ł		
		T		1	İ	TOTAL -	1020	<u> </u>		
Existing /	Assets				İ			\$ 125,196.50	Sub-Total	
5194	LIDVO			01170						
5194	UPVC	N181 N161	N161	SHTS	200	10	1981		Gardner Circuit	
5170	UPVC	N152	N160 N157	SHTS	200 200	15 140	1981 1981	\$ 2,008.50 \$ 18,746.00		
5172	UPVC	N157	N159	SHTS	200	90	1981		Wilcox Avenue Wilcox Avenue	
5173	UPVC	N159	N160	SHTS	200	90	1981		Wilcox Avenue	
6292	UPVC	N152	N230	SHTS	200	10	1981		Wilcox Avenue	
5161	UPVC	N146	N149	SHTS	200	90	1978		Wilcox Avenue	
5162	UPVC	N149	N170	SHTS	200	5	1978	\$ 669.50	Wilcox Avenue	
5163	UPVC	N149	N150	SHTS	200	30	1978		Wilcox Avenue	
5164 5165	UPVC	N150	N151	SHTS	200	100	1981		Wilcox Avenue	
5157	UPVC	N151 N145	N152	SHTS	200	20	1981		Wilcox Avenue	
5130	AC	N121	N146 N123	SHTS	200	160 115	1978		Wilcox Avenue	
5131	AC	N123	N145	SHTS	200	60	1973 1975		Wilcox Avenue	
	1		11175	Citio	200	00	1910	3 6,034.00	Wilcox Avenue	
			1	L						
MAISON I	DIEU INDU	STRIAL ESTAT	Ę					\$ 1,059,964.66	Total	1
Existina N	o Of Lots =	271	Future Lo	its =	110	Total =	201			
		-11	undle EU	, 	110	TO(al =	381			.
Existing A	Assets			1				\$ 905,165.96	Sub-Total	
Ann. (!			.l.,							
Apex Look	cout Pump	Station & Reser	voir:					\$ 715,108.40		1
Ubex Foor		ower for 11.5 L	le to 55 m :	- 17 41/0/			4000			
		V = (11.5 x 55 x			'Y		1988		\$ 62,088.40	
		np, kW = 2 x 8.7			<i></i>					
	Land Acqu	ulsition (estimate	ed)	1			1988		\$ 77,250.00	
	Access Ro	oad (estimated)		İ			1988		\$ 10,300.00	
		Site (estimated)	)				1988		\$ 25,750,00	
Apex Look	out Reserv		ļ	Ì						
		el Standpipe R					1988		\$ 428,480.00	1
		ilve (estimated) iisition (estimate		ļ			1988		\$ 3,090.00	
		pad (estimated)					1988		\$ 103,000.00	ļ
	7100033111	)au (eathnateu)			*** * * * * * * * * * * * * * * * * * *		1988		\$ 5,150.00	
Gowrie-Pu	mp Station	(same as Apex	Lookout P	<del>S</del> )				\$ -		·
	Hist-Cost=			CCF=	1.24		1991		\$ 8,680.00	
	Hist-Cost=	\$5,000.00		(1995)			1945		\$ 6,200.00	· · · · · · · · · · · · · · · · · · ·
	Hist Cost=	\$20,000.00			.,		4985		\$ 24,800.00	
9057 9058	Hist-Cost=						1985		\$ 24,800.00	
9999	mor-best-	310,000.00	P.S.				1985		\$ 12,400.00	)[
6038	UPVC	N913	N914	MAIS	150	100	1977	\$ 10,815.00	Maison Dieu Road	·
6057	UPVC	N913	N932	MAIS	150	150	1977		Hambledon Hill Road	
6058	UPVC	N932	N933	MAIS	150	140	1977		Hambledon Hill Road	
6059	UPVC	N933	N934	MAIS	150	130	1977	\$ 14,059.50	Hambledon Hill Road	1
6060	UPVC	N935	N934	MAIS	150	105	1977	\$ 11,355.75	Hambledon Hill Road	1
6067	UPVC UPVC	N935	N944	MAIS	150	100	1977		Hambledon Hill Road	1
6068 6069	UPVC	N944	N945	MAIS	150	140	1977		Hambledon Hill Road	
6070	UPVC	N945 N947	N946 N946	MAIS MAIS	150 150	70 90	1977		Hambledon Hill Road	
6071	UPVC	N947	N948	MAIS	200	40	1977 1986		Hambledon Hill Road Lookout Road	
6072	UPVC	N949	N948	MAIS	200	80	1986		Lookout Road Lookout Road	ļ
6073	UPVÇ	N950	N946	MAIS	150	70	1977		Hambledon Hill Road	4
6074	UPVC	N950	N951	MAIS	150	130	1977	CONTRACTOR OF THE OWN PROPERTY AND ADDRESS OF THE OWN PARTY.	Hambledon Hill Road	1
6075	UPVC	N951	N952	MAIS	150	110	1977		Hambledon Hill Road	<u> </u>
6076	UPVC	N952	N1129	MAIS	150	165	1977	\$ 17,844.75	Hambledon Hill Road	·
6410	UPVC	1207	948	MAIS	150	109	1998		Lookout Road	
uture Ass	sets	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·					¢ 454.700 mo	C.d. Tatal	
			İ	<b> </b>	···-i			\$ 154,798.70	Ono-10(8)	ļ
	UPVC				150	1,697	2007	\$ 122,353.70	Lookout Rd To Magpie, Trunk	
	UPVC				150	450	2005		Press Boosl Main From McDougalls P.S.	1
	***************************************							***************************************		
		/F1 AB1451	ļ					\$ 166,345.00	Total	
SOWRIE G	ATES DE	/ELOPMEN I								:
								<u> </u>		-
	Of Lots =	0	Future Lot	s =	550	Total =	550	<u> </u>		
	Of Lots =		Future Lot	s=	550	Total =	550	\$ 166,345.00		

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Table 4 (Water Assets - Existing and Future)

Asset ID No	Pipe	U/S	D/S	Locality		Length	Year	Replacement	Comment	
170	Mat'l	Node	Node		Dia	(M)	Constr'd	Cost		
·····	Туре	No	No		(MM)			(Assumed CPI increase		
From "WA	TER DB"		-		1			of 3.0%, 6/03 to 6/04)		
	15.000						<u> </u>			ļ
	UPVC				150	300	2007-17	\$ 32,445.00	Trunk	i i
	UPVC				200	1,000	2007-17	\$ 133,900.00		1
LUNTEDV	IEW COTA	<u>.</u>			ļ					
HUNTERV	IEW ESTA	<u>    E</u>	ļ					\$ 651,620.47	Total	
Existing No	n Oftots≕	713	Future Lo	e =	187	Total =	900		: 	
	T	1	, didic Lo	9 –	101	TOTAL -	300			
Existing A	ssets	1			l			\$ 651,620.47	Sub-Total	
	···									
5349	AC	N310	N325	HUNT	375	260	1982		Acacla Circuit	i
5307	AC	N285	N290	HUNT	300	75	1982		Acacia Circuit	
5308 5309	AC AC	N290 N291	N291	HUNT	300	105	1982		Acacia Circuit	
5310	AC	N291 N294	N294 N295	HUNT	375 375	75 150	1982		Acacla Circuit	
5311	AC	N295	N309	HUNT	375	60	1982 1982	\$ 40,170.00 \$ 16,068.00	Acacia Circuit Acacia Circuit	
5312	AC	N309	N310	HUNT	375	115	1982		Acacia Circuit	ļ
5303	AC	N285	N286	HUNT	300	40	1982		Acacia Circuit	
5304	AC	N286	N287	HUNT	300	30	1993		Acacia Circuit	
5305	AC	N287	N288	HUNT	250	25	1993	\$ 4,377.50	Acacia Circuit	1
HV001	UPVC	N288	NHV1	HUNT	250	50	2002	\$ 8,755.00	Acacia Circuit	
HV002	UPVC	NHV1	NHV2	HUNT	200	83	2002		Acacia Circuit	
HV003 5313	UPVC UPVC	NHV2	NHV3	HUNT	200	243	2002		Acacia Circuit	
5314	UPVC	N295 N296	N296 N297	HUNT	200 200	80 90	1982 1982		Burbank Crescent	4
5328	AC	N291	N292	HUNT	375	100	1982		Burbank Crescent Casey Drive	
5330	AC	N292	N315	HUNT	375	80	1982		Casey Drive	ļ
5331	AC	N315	N316	HUNT	375	50	1982		Casey Drive	
63674	UPVC	N316	N164	HUNT	250	76	1995		Casey Drive	
6364	UPVC	N316	N1164	HUNT	250	75	1995	\$ 13,132.50	Casey Drive	
6365	UPVC	N1164	N1166	HUNT	250	115	1995		Casey Drive	
6366	UPVC	N1166	N1167	HUNT	250	60	1995		Casey Drive	1
6392 6401	UPVC UPVC	1167	1196	SING	250	103	1998		Casey Drive	1
6402	UPVC	1196 1202	1202 1203	SING	250 250	96 92	1998 1998		Casey Drive	
HV004	UPVC	N1203	NHV4	HUNT	250	316	2002		Casey Drive	
HV005	UPVC								Casey Drive	
HV005 HV006	UPVC UPVC	NHV4 NHV5	NHV5	HUNT	200	115	2003	\$ 15,398.50	Casey Drive	
HV006 HV007	UPVC UPVC	NHV4		HUNT				\$ 15,398.50 \$ 8,971.30	Casey Drive Casey Drive	-
HV006 HV007 HV008	UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6	NHV5 NHV6 NHV8 NHV3	HUNT HUNT HUNT HUNT	200 200	115 67	2003 2003	\$ 15,398.50 \$ 8,971,30 \$ 11,113.70	Casey Drive Casey Drive Casey Drive	
HV006 HV007	UPVC UPVC	NHV4 NHV5 NHV7	NHV5 NHV6 NHV8	HUNT HUNT HUNT	200 200 200	115 67 83	2003 2003 2002	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90	Casey Drive Casey Drive	
HV006 HV007 HV008	UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6	NHV5 NHV6 NHV8 NHV3	HUNT HUNT HUNT HUNT	200 200 200 200	115 67 83 351	2003 2003 2002 2004	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde	
HV006 HV007 HV008 HV009	UPVC UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6 NHV3	NHV5 NHV6 NHV8 NHV3 NHV8	HUNT HUNT HUNT HUNT HUNT	200 200 200 200 200 200	115 67 83 351	2003 2003 2002 2004	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009	UPVC UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6	NHV5 NHV6 NHV8 NHV3 NHV8	HUNT HUNT HUNT HUNT HUNT	200 200 200 200 200 200	115 67 83 351	2003 2003 2002 2004	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009	UPVC UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6 NHV3	NHV5 NHV6 NHV8 NHV3 NHV8	HUNT HUNT HUNT HUNT HUNT	200 200 200 200 200 200	115 67 83 351 253	2003 2003 2002 2004 2002	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009	UPVC UPVC UPVC UPVC UPVC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE,	NHV5 NHV6 NHV8 NHV3 NHV8	HUNT HUNT HUNT HUNT HUNT	200 200 200 200 200 200	115 67 83 351	2003 2003 2002 2004	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009 SINGLETC	UPVC UPVC UPVC UPVC ON TOWN (	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots):	NHV5 NHV6 NHV8 NHV3 NHV8	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200	115 67 83 351 253	2003 2003 2002 2004 2002 3051	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009 SINGLETC Existing No	UPVC UPVC UPVC UPVC ON TOWN (	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots):	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 WN)	115 67 83 351 253 Total =	2003 2003 2002 2004 2002	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No	UPVC UPVC UPVC UPVC OP TOWN ( OF Lots = (equivalent) OF Lots =	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots):	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 <b>WN)</b>	115 67 83 351 253 Total =	2003 2003 2002 2004 2002 3051	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total	
HV006 HV007 HV008 HV009 SINGLETC Existing No	UPVC UPVC UPVC UPVC OP TOWN ( OF Lots = (equivalent) OF Lots =	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots):	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 <b>WN)</b>	115 67 83 351 253 Total =	2003 2003 2002 2004 2002 3051	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No	UPVC UPVC UPVC UPVC ON TOWN ( DO Of Lots = (equivalent of Lots = ssets	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR Future Lot	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 200 4WN) 100 50 150	115 67 83 351 253 Total =	2003 2003 2002 2004 2002 3051 125 3176	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total Sub-Total	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No	UPVC UPVC UPVC UPVC OF TOWN ( OF Lots = (equivalent Of Lots = ssets AC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 200 50 150	115 67 83 351 253 Total =	2003 2003 2003 2002 2004 2002 3051 125 3176	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total Civic Avenue	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No	UPVC UPVC UPVC UPVC OPVC UPVC  N TOWN ( OF Lots = (equivalent OF Lots =  Ssets  AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR Future Lot	HUNT HUNT HUNT HUNT HUNT FOF TO	200 200 200 200 200 200 200 4WN) 100 50 150	115 67 83 351 253 Total =	2003 2003 2002 2004 2002 3051 125 3176	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total Civic Avenue Civic Avenue	
HV006 HV007 HV008 HV009 SINGLETC Existing Nc Standpipe Existing Nc Existing Ac 6009 6010 6011 6011	UPVC UPVC UPVC UPVC UPVC OF LOT S OF LOTS = (equivalent) OF LOTS = AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV3 2951 lots): 75 3026 N419 N831 N831 N864 N891	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot	HUNT HUNT HUNT HUNT HUNT FOF TO S = S = SING SING	200 200 200 200 200 200 300 100 50 150 200 200	115 67 83 361 253 Total =	2003 2003 2003 2002 2004 2002 3051 125 3176	\$ 15,398,50 \$ 8,971,30 \$ 11,113,70 \$ 46,998,90 \$ 33,876,70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746,00 \$ 12,051,00 \$ 10,042,50 \$ 10,042,50	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total Civic Avenue	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No Existing No 6010 6011 6012 6014	UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent of OF Lots = AC AC AC AC UPVC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026 N419 N831 N864 N891 N891	NHV5 NHV8 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N891 N892 N865	HUNT HUNT HUNT HUNT HUNT FOF TO S = S = SING SING SING SING SING SING	200 200 200 200 200 200 200 50 150 200 200 200 200 200	115 67 83 351 253 Total = Total = 140 90 75 10	2003 2003 2002 2004 2002 3051 125 3176 1980 1980	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 1,339.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde  Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing No Existing A 6009 6010 6011 6012 6014 6351	UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent Of Lots = AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026 N419 N831 N864 N891 N864 N891	NHV5 NHV8 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N892 N892 N892 N893	HUNT HUNT HUNT HUNT HUNT FOF TO S = S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 150 200 200 200 200 200 375	115 67 83 351 253 Total = Total = 140 90 75 10	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1980	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,008.50 \$ 2,678.00 \$ 2,678.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue	
HV006 HV007 HV009 SINGLETC Existing No Standpipe Existing No Existing A 6009 6010 6011 6012 6014 6351 6263	UPVC UPVC UPVC UPVC UPVC OP TOWN (  ) Of Lots = (equivalent Of Lots = AC AC AC AC AC AC UPVC UPVC	NHV4 NHV5 NHV7 NHV6 NHV3 LOWER ZONE, 2951 lots): 75 3026 N419 N831 N864 N891 N864 N891 N864 N407	NHV5 NHV6 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot Future Lot 1884 N891 N892 N895 N235	HUNT HUNT HUNT HUNT HUNT FOF TO S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 50 150 200 200 200 200 200 200 250 250	115 67 83 351 253 Total = Total = 140 90 75 10 15 10 70	2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1980 1986 1986	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,008.50 \$ 2,678.00 \$ 12,257.00 \$ 12,257.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde  Total  Sub-Total  Civic Avenue	
HV006 HV007 HV008 HV009 SINGLETC Existing No Standpipe Existing No 6010 6011 6012 6014 6351 6263 5457	UPVC UPVC UPVC UPVC UPVC OPVC OF Lots = (equivalent o Of Lots = AC AC AC AC AC AC UPVC AC UPVC AC	NHV4 NHV5 NHV7 NHV6 NHV3 NHV3 LOWER ZONE, 2951 lots): 75 3026 N419 N831 N864 N891 N864 N407 N416	NHV5 NHV8 NHV8 NHV3 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N891 N895 N235 N235 N235 N417	HUNT HUNT HUNT HUNT HUNT S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 50 150 200 200 200 200 200 200 250 250 250	115 67 83 351 253 Total = Total = 140 90 75 10 10 70 80	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1986 1986 1986 1981	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,678.00 \$ 2,678.00 \$ 12,257.00 \$ 14,008.00 \$ 14,008.00	Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street Queen Street Queen Street Queen Street	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing No 6009 6010 6011 6012 6014 6015 6016 6016 6017 6017 6018 6019 6019 6010 6019 6010 6011 6012 6014 6015 6016 6017 6018 6019 6019 6019 6019	UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent Of Lots = (AC AC AC AC AC AC AC AC AC AC AC AC AC A	NHV4 NHV5 NHV7 NHV6 NHV3 NHV3 2951 lots): 75 3026 N419 N831 N864 N891 N891 N894 N407 N416 N416 N416	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N892 N865 N235 N235 N235 N247 N243	HUNT HUNT HUNT HUNT HUNT FOF TO S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 50 150 200 200 200 200 200 200 200 250 250 2	115 67 83 351 253 Total = Total = 140 90 75 10 10 10 70 80 10 10	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1986 1986 1981	\$ 15,398.50 \$ 8,971.30 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,08.50 \$ 2,08.50 \$ 12,257.00 \$ 12,257.00 \$ 12,267.00 \$ 12,276.30	Casey Drive Casey Drive Casey Drive Wikinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street	
HV006 HV007 HV009 HV009 Existing NC Standpipe Existing NC Existing A 6010 6011 6012 6014 6351 6263 5457 6290 5458	UPVC UPVC UPVC UPVC UPVC OPT OF Lots = (equivalent OF Lots = AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N891 N864 N407 N416 N416 N416 N417	NHV5 NHV8 NHV8 NHV3 NHV8 NHV8 OLD PAR Future Lot Future Lot Future Lot N831 N864 N891 N892 N865 N235 N417 N2418	HUNT HUNT HUNT HUNT HUNT T OF TO S = S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 100 150 150 200 200 200 200 200 200 250 250 250	115 67 83 351 253 Total = Total = 140 90 75 10 15 10 70 80 77 65	2003 2003 2002 2004 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1980 1986 1981 1981 1981	\$ 15,398.50 \$ 1,1113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,678.00 \$ 2,678.00 \$ 14,008.00 \$ 14,008.00 \$ 2,276.30 \$ 1,381,50	Casey Drive Casey Drive Casey Drive Wikinson Boulevarde Wilkinson Boulevarde Total  Sub-Total Civic Avenue Ci	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing No 6009 6010 6011 6012 6014 6015 6016 6016 6017 6017 6018 6019 6019 6010 6019 6010 6011 6012 6014 6015 6016 6017 6018 6019 6019 6019 6019	UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent Of Lots = (AC AC AC AC AC AC AC AC AC AC AC AC AC A	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  LOWER ZONE, 2951 lots): 75 3026  N419 N831 N864 N891 N864 N807 N416 N416 N417 N417 N417	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N895 N235 N235 N417 N243 N417 N243 N419	HUNT HUNT HUNT HUNT HUNT F OF TO S = S = S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 300 100 150 200 200 200 200 200 200 200 200 200 2	115 67 83 351 253 Total = Total = 140 90 75 10 70 80 17 65	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1986 1981 1981 1981 1981	\$ 15,398.50 \$ 11,113,70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 13,39.00 \$ 2,008.50 \$ 2,678.00 \$ 2,678.00 \$ 14,008.00 \$ 12,051.00 \$ 1339.00 \$ 2,768.00 \$ 2,678.00 \$ 12,257.00 \$ 14,008.00 \$ 14,008.00 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50	Casey Drive Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street Queen Street	
HV006 HV007 HV009 SINGLETC Existing No Standpipe Existing No 6010 6011 6012 6014 6351 6263 5457 6290 5458	UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent of Of Lots = AC AC AC AC AC AC AC AC AC AC AC AC AC A	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N891 N864 N407 N416 N416 N416 N417	NHV5 NHV8 NHV8 NHV3 NHV8 NHV8 OLD PAR Future Lot Future Lot Future Lot N831 N864 N891 N892 N865 N235 N417 N2418	HUNT HUNT HUNT HUNT HUNT T OF TO S = S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 100 150 150 200 200 200 200 200 200 200 200 200 2	115 67 83 351 253 Total = Total = 140 90 75 10 15 10 70 80 77 65	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1986 1986 1986 1981 1981 1981	\$ 15,398,50 \$ 8,971,30 \$ 11,113,70 \$ 46,998,90 \$ 33,876,70 \$ 2,226,401,65 \$ 2,226,401,65 \$ 18,746,00 \$ 12,051,00 \$ 10,042,50 \$ 1,339,00 \$ 2,008,50 \$ 2,678,00 \$ 12,257,00 \$ 14,026,03 \$ 11,381,50 \$ 26,265,00 \$ 11,381,50 \$ 11,381,50 \$ 11,381,50 \$ 26,265,00	Casey Drive Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde  Total  Sub-Total  Civic Avenue	
HV006 HV007 HV008 HV009 Existing No Standpipe Existing A 6009 6010 6011 6012 6014 6351 6263 5457 6290 5458 5457 6290 5458 5457 6290 5458 5459 5897	UPVC UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent of Lots = 1	NHV4 NHV5 NHV7 NHV6 NHV3 NHV3 2951 lots): 75 3026 N419 N831 N864 N891 N864 N407 N416 N417 N417 N417	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot N831 N864 N891 N892 N865 N235 N235 N235 N235 N243 N418 N418 N418 N418	HUNT HUNT HUNT HUNT HUNT FOF TO S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 300 100 150 200 200 200 200 200 200 200 200 200 2	115 67 83 351 253 Total = Total = 140 90 75 10 15 10 70 80 17 85 85	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1986 1981 1981 1981 1981	\$ 15,398.50 \$ 11,113.70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,678.00 \$ 2,678.00 \$ 12,057.00 \$ 1,339.00 \$ 2,276.30 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 26,265.00 \$ 7,879.50	Casey Drive Casey Drive Casey Drive Wikinson Boulevarde Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing A 6009 6010 6011 6012 6014 6351 6263 5457 6290 5458 5459 5459 5897 5898 5899	UPVC UPVC UPVC UPVC UPVC UPVC Of Lots = (equivalent Of Lots = (equivalent Of Lots = (equivalent Of Lots = (equivalent AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV3 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N891 N864 N407 N416 N417 N417 N417 N417 N417 N418 N419 N784 N783	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot Future Lot N831 N864 N891 N892 N865 N235 N235 N235 N235 N243 N418 N418 N418 N418 N418 N418 N418 N418	HUNT HUNT HUNT HUNT HUNT FOF TO  S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 200 100 150 200 200 200 200 200 200 200 200 200 2	115 67 83 351 253 Total = Total = 140 90 75 10 10 15 10 80 15 65 65 150	2003 2003 2002 2004 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1980 1986 1981 1981 1981 1981 1981	\$ 15,398.50 \$ 11,113,70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,008.50 \$ 2,276.30 \$ 12,257.00 \$ 11,381.50 \$ 11,381.50 \$ 7,879.50 \$ 7,879.50 \$ 12,751.00	Casey Drive Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street	
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HV006 HV007 HV009 HV009 Existing No Standpipe Existing A 6009 6010 6011 6012 6014 6351 6263 5457 6290 5458 5459 5899 5909 5909 5909 5909 5909 5909 59	UPVC UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent Of Lots = (equivalent AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N407 N416 N417 N418 N419 N783 N783 N783 N783 N783 N783 N783 N783	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot Future Lot N831 N864 N891 N895 N235 N235 N417 N243 N419 N784 N784 N785 N785 N785 N785 N785 N785 N785 N785	HUNT HUNT HUNT HUNT HUNT F OF TO S = S = S = SING SING SING SING SING SING SING SING	200 200 200 200 1100 200 200 200 200 200	115 67 83 351 253 Total = Total = 140 90 75 10 70 10 70 45 565 150 45 95 10 10 10 10 10 10 10 10 10 10 10 10 10	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1981 1981 1981 1981 1981 1982 1982 1982	\$ 15,398.50 \$ 11,113,70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 12,051.00 \$ 10,042.50 \$ 1,339.00 \$ 2,008.50 \$ 2,276.30 \$ 14,008.00 \$ 2,276.30 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 11,751.00 \$ 12,720.50 \$ 1	Casey Drive Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing A 6009 6010 6011 6012 6014 6351 6263 5457 6290 5458 5459 5459 5897 5898 5899 5900 6264 6283 5414 5415	UPVC UPVC UPVC UPVC UPVC UPVC UPVC Of Lots = (equivalent Of Lots = (equivalent Of Lots = (equivalent AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N407 N416 N417 N416 N417 N418 N419 N784 N783 N782 N783 N782 N407 N551 N383 N383 N383 N383	NHV5 NHV8 NHV8 NHV3 NHV8 NHV3 NHV8 Puture Lot Future Lot Future Lot 100 N831 N864 N891 N892 N865 N235 N235 N235 N235 N235 N243 N418 N419 N784 N784 N785 N785 N785 N785 N785 N785 N785 N785	HUNT HUNT HUNT HUNT HUNT FOF TO  S = S = SING SING SING SING SING SING SING SING	200 200 200 200 200 200 200 200 200 200	115 67 83 351 253 Total = Total = 140 90 75 10 15 10 70 80 17 65 65 150 45 95 10 125 10 125 10 125 10 10 125 10 10 10 10 10 10 10 10 10 10 10 10 10	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1986 1981 1981 1981 1981 1981 1981	\$ 15,398.50 \$ 11,113,70 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 10,042.50 \$ 13,399.00 \$ 2,008.50 \$ 2,078.00 \$ 12,257.00 \$ 11,381.50 \$ 12,257.00 \$ 11,381.50 \$	Casey Drive Casey Drive Casey Drive Casey Drive Wikinson Boulevarde Wikinson Boulevarde Wikinson Boulevarde Total  Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street John Street John Street John Street John Street	
HV006 HV007 HV009 HV009 Existing No Standpipe Existing A 6009 6010 6011 6012 6014 6351 6263 5457 6290 5458 5459 5899 5909 5909 5909 5909 5909 5909 59	UPVC UPVC UPVC UPVC UPVC UPVC OF Lots = (equivalent Of Lots = (equivalent AC AC AC AC AC AC AC AC AC AC AC AC AC	NHV4 NHV5 NHV7 NHV6 NHV7 NHV6 NHV3  2951 lots): 75 3026  N419 N831 N864 N891 N864 N407 N416 N417 N418 N419 N783 N783 N783 N783 N783 N783 N783 N783	NHV5 NHV8 NHV8 NHV8 NHV8 NHV8 NHV8 NHV8 OLD PAR Future Lot Future Lot Future Lot N831 N864 N891 N895 N235 N235 N417 N243 N419 N784 N784 N785 N785 N785 N785 N785 N785 N785 N785	HUNT HUNT HUNT HUNT HUNT F OF TO S = S = S = SING SING SING SING SING SING SING SING	200 200 200 200 1100 200 200 200 200 200	115 67 83 351 253 Total = Total = 140 90 75 10 70 10 70 45 565 150 45 95 10 10 10 10 10 10 10 10 10 10 10 10 10	2003 2003 2003 2002 2004 2002 3051 125 3176 1980 1980 1980 1980 1986 1981 1981 1981 1981 1981 1982 1982 1982	\$ 15,398.50 \$ 19,713.00 \$ 46,998.90 \$ 33,876.70 \$ 2,226,401.65 \$ 18,746.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,051.00 \$ 12,257.00 \$ 14,008.00 \$ 2,276.30 \$ 14,008.00 \$ 12,257.00 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 11,381.50 \$ 17,511.00 \$ 7,879.50 \$ 12,720.50 \$ 16,737.50 \$ 16,737.50 \$ 16,737.50 \$ 11,538.50 \$ 11,739.90 \$ 15,398.50 \$ 10,712.00 \$ 15,398.50 \$ 10,712.00 \$ 15,398.50 \$ 15,398.50 \$ 13,339.00	Casey Drive Casey Drive Casey Drive Casey Drive Wilkinson Boulevarde Wilkinson Boulevarde Wilkinson Boulevarde Total  Sub-Total  Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Civic Avenue Queen Street	

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Aliotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Replacement	Comment
Asset ID	Mat'l	Node	Node		Dia	(M)	Constr'd	Cost	
No	Туре	No	No		(MM)			(Assumed CPI increase	
From "WA	TER.DB"		+	<u> </u>	-			of 3.0%, 6/03 to 6/04)	
5423	DICL	N351	N350	CBD	300	20	1985	\$ 4,326.00	John Street
5429 5433	DICL	N350 N405	N405 N406	CBD	200	125	1995	\$ 20,600.00	John Street
5434	DICL	N543	N406	CBD	200	135 110	1995 1995	\$ 22,248.00 \$ 18,128.00	John Street John Street
5552	DICL	N543	N425	CBD	200	70	1995	\$ 11,536.00	John Street
5553	UPVC	N418	N420	SING	200	120	1981		Bishopgate Street
5544 5550	DICL UPVC	N425	N542	CBD	200	10	1995	\$ 1,648.00	John Street
5549	UPVC	N532 N532	N542 N533	CBD	200	102 118	1995 1995	\$ 13,657.80	John Street
5609	UPVC	N525	N534	SING	200	155	1995	\$ 15,800.20 \$ 20,754.50	John Street John Street
5610	UPVC	N534	N533	SING	200	142	1995	\$ 19,013.80	John Street
5595	DICL	N475	N523	SING	200	130	1940	\$ 21,424.00	John Street
5732 6259	UPVC AC	N549	N550	SING	200	125	1977		John Street
6258	AC	N385 N412	N540 N540	SING	200 200	20 140	1986 1986		New England Highway
5455	AC	N410	N411	SING	200	95	1985		New England Highway New England Highway
5456	DICL	N411	N412	SING	200	15	1985		New England Highway
6288	AC	N408	N409	SING	200	20	1985	\$ 2,678.00	New England Highway
6289 5466	AC UPVC	N410 N426	N409 N408	SING	200	5	1985	\$ 669.50	New England Highway
5473	UPVC	N428	N408 N426	SING	200	105 140	1983 1983	\$ 14,059.50 \$ 18,746.00	New England Highway New England Highway
5475	UPVC	N431	N429	SING	200	150	1983		New England Highway
5477	UPVC	N431	N432	SING	200	10	1983	\$ 1,339.00	New England Highway
5870 5871	UPVC	N689	N688	SING	200	135	1985	\$ 18,076.50	New England Highway
5853	UPVC	N688 N687	N687 N703	SING	200 200	190 30	1985 1985		New England Highway
5854	UPVC	N703	N804	SING	200	25	1985		New England Highway New England Highway
5450	AC	N400	N430	SING	300	110	1985	\$ 23,793.00	New England Highway
5451	AC	N398	N430	SING	300	15	1985	\$ 3,244.50	New England Highway
5452 5453	AC AC	N398 N397	N397 N335	SING	300 300	140 130	1985 1985		New England Highway
5454	DICL	N335	N409	SING	300	25	1986		New England Highway New England Highway
5555	AC	N497	N400	SING	300	30	1985		New England Highway
5772	UPVC	N686	N685	SING	300	90	1985	\$ 19,467.00	New England Highway
5773 5774	UPVC UPVC	N683	N685	SING	300	130	1985		New England Highway
5775	UPVC	N447 N497	N683 N447	SING	300 300	135 110	1985 1985		New England Highway
6267	UPVC	N237	N854	SING	300	100	1985		New England Highway New England Highway
6268	UPVC	N686	N237	SING	300	25	1985		New England Highway
6319	UPVC	N689	N690	SING	200	10	1985	\$ 1,339.00	New England Highway
5361 5362	DICL MS	N248 N337	N337 N338	DUNO	375 400	100	1986		Newton Street
5363	DICL	N331	N338	DUNO	375	85 65	1986 1986		Dunolly Bridge Dunolly Bridge
5374	DICL	N335	N331	SING	375	290	1986		Campbell Street
5416	UPVC	N352	N353	SING	200	115	1985	\$ 15,398.50	Campbell Street
5417 5419	UPVC UPVC	N353	N362	SING	200	10	1985		Campbell Street
5776	AC I	N362 N497	N408 N691	SING	200 300	165 150	1985 1986		Campbell Street
5777	AC	N691	N692	SING	300	120	1986		Goulburn Street Goulburn Street
5778	AC	N692	N693	SING	300	150	1986		Goulburn Street
5780 5782	AC	N693	N694	SING	300	145	1986	\$ 31,363.50	Broughton Street Extended
5783	AC AC	N694 N695	N695 N696	SING	300	45 150	1986 1987		Broughton Street Extended
5785	AC	N696	N698	SING	300	135	1987		Broughton Street Extended Broughton Street Extended
6269	AC	N238	N698	SING	300	10	1987		Boonal Street
5789	AC	N723	N698	SING	300	130	1987	\$ 28,119.00	Boonal Street
5819 5820	AC AC	N723 N761	N761	SING	300	145	1987		Boonal Street
5915	DICL	N809	N758 N758	SING	200	225 10	1987 1993		Boonal Street
5917	DICL	N758	N823	SING	200	115	1993		Boonal Street Boonal Street
6000	DICL	N828	N823	SING	200	140	1993		Boonal Street
5479	DICL	N437	N438	SING	200	125	1986	\$ 20,600.00	William Street
5480 5481	AC AC	N438 N439	N439 N440	SING	300	120	1986		William Street
5482	AC	N439 N440	N440 N441	SING	300	170 135	1986 1986		William Street William Street
5483	AC	N444	N441	SING	300	70	1986		William Street
5484	AC	N444	N446	SING	300	215	1986	\$ 46,504.50	William Street
5485	AC	N446	N447	SING	300	20	1986	\$ 4,326.00	William Street
5493 5540	AC AC	N438 N480	N480 N508	SING	300	280 180	1986		Bathurst Street
5541	AC	N508	N522	SING	300	75	1986 1986		Bathurst Street Bathurst Street
5542	AC	N522	N538	SING	300	150	1986		Bathurst Street
6313	AC	N538	N539	SING	300	10	1986	\$ 2,163.00	Bathurst Street
5637	DICL	N568	N567	SING	200	120	1988		Bathurst Street
5638 5613	DICL AC	N567 N549	N538 N564	SING	200	115	1988		Bathurst Street
2010	70	11/48	11004	SHAR	200	55	1977	\$ 7,364.50	Harriett Street

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214 1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Replacement	Comment	71
Asset ID	Mat'l	Node	Node	1	Dia	(M)	Constr'd	Cost	Continent	
No	Type	No	No		(MM)			(Assumed CPI increase	9	11
From "WA	TER.DB"			-			<del> </del>	of 3.0%, 6/03 to 6/04)	<u> </u>	
			i				ļ			-
5614	AC	N565	N564	SING	200	220	1977	\$ 29,458.00	Harriett Street	
5615 6312	AC AC	N565	N563	SING	200	75	1977		Harriett Street	
5728	AC	N563 N678	N539 N677	SING	200	15	1977		Harriett Street	
5729	AC	N539	N677	SING	200	135 170	1977 1937		Harriett Street Harriett Street	
5730	AC	NN678	N669	SING	200	120	1977		Harriett Street	
5607	DICL	N525	N527	SING	200	100	1908		Gowrie Street	
5608	UPVC	N728	N527	SING	200	380	1983	\$ 50,882.00	Gowrie Street	1
6303 6304	AC AC	N697	N728	SSIN	200	140	1930		Gowrie Street	
6309	DICL	N697 N524	N1124 N525	SSIN	200	235	1960		Gowrie Street	
6353	MS	N599	N1124	DARL	300	90	1908 1960		Gowrie Street	
6295	AC	N680	N257	SSIN	250	50	1960		Gowrie Street (river crossing) Gowrie Street Extended	H
6296	AC	N257	N1124	SSIN	300	176	1960		Gowrie Street Extended	
6298	AC	N340	N1125	SSIN	375	226	1960	\$ 60,522.80	Gowrie Street Extended	
6299 6333	AC	N	N332	SSIN	250	275	1981		Gowrie Street Extended	11
6285	AC AC	N1124 N667	N1125 N241	GOWR GLEN	300 250	10	1960		Gowrie Street Extended	
6300	AC	N332	N895	SSIN	200	640	1982 1960		Waterworks Lane	44
6301	1	N332	N249	SSIN	250	12	1960		Waterworks Lane Waterworks Lane	
6302		N113	N249	SSIN	250	20	1960		Waterworks Lane	
										1
CDECEC	D BOAD O	UID ADEA					1			1
GKESFOR	RD ROAD S	UB-AKEA	ļ		<u> </u>		ļ	\$ 552,516.00	Total	1
Existing N	o Of Lots ≃	0	Future Lo		150	Total =	150			<b> </b>
			i dioio co	7.5 -	130	10(8)	150			<u> </u>
Future As	sets		1	1	İ			\$ 552,516.00	Sub-Total	
	1				İ			3334		11
	Elevated Ta		يإ		L		2005	\$ 200,000.00		
Delivery IV	UPVC	ingleton To Gre	stord Road	Sub-Are		4 070				
	UPVC		ł	-	100 80	1,070 1,860	2007	\$ 77,147.00		
Booster W	ater Pump	Station				1,000	2007	\$ 105,369.00 \$ 45,000.00		
100 KL Ele	evated Tank	(12m High)	1	1			2007	\$ 125,000.00		
	ļ			1						<b></b>
BRIDGMA	N DIDOE									11
DKIDGIVIA	N RIDGE		ļ	<del> </del> -	ļ			\$ 262,650.00	Total	11
Existing No	Of Lots =	0	Future Lo	.l	800	Total =	800			
			1 41010 20		000	10tar =	000			<u> </u>
Future As	sets			1				\$ 262,650.00	Sub-Total	<del> </del>
	110110								1	11
	UPVC			ļ	250	1,500	2007-15	\$ 262,650.00	Trunk	11
				ļ				Control deserving and the Control Section Control		
MT THORI	LEY, BROK	E & BULGA (&	ARMY					\$ 56,074.30	Total	<u> </u>
As the folio	wing section	n of main was t	fully paid b	y the Arm	v. there	will be no	charge to th	ne army in using the m	; Total	H
			1	1	*. (			o dining and the		<u> </u>
Mt Thorley										[· j· ·····
Existing No Broke:	Of Lots =	76	Future Lo	ts =	14	Total =	90			
	Of Late -	110 (backlog)	Enturo La	te =	47	Total	4,500			
Bulga:	, J. LUIO -	. 10 (backlog)	unite LO	10	47	Total =	157			
	Of Lots =	35 (backlog)	Future Lo	ts =	9	Total =	44			{- ·
		221	1	I	70		291	Sub - total		}-
	valent No c		L							
Existing No	Of Lots =	475	Future Lo	ts =	150	Total =	625			
		696			220		916	Grand Total		
Thus, Mt T	horley Brok	e & Bulna will o	i only have t	nav the	followin	06 towa-	de the see	of the main: 31,77% (=	004 400 (040)	
, 1711	y, DiVI	a Duiga Will (	any nave t	o pay tile	NIMOIIO	y % toward	us the cost	or me main: 31,77% (=	: 291 x 100 / 916).	
Existing A	ssets							\$ 56,074.30	Sub-Total	
								7 00,014.30	TOTAL TOTAL	
		ngleton To Putt						\$ 56,074.30		· · · · · · · · · · · · · · · · · · ·
(ST001	AC	N332	NST1=NMT1	GLEN	250	1,008	1982		\$ 56,074.30	)
										1
VIT THOR	EY, BROK	E & BULGA						6 4004 444		
							i	\$ 1,651,308.75	Total	
VI Thorley:										
		76	Future Lot	s=	14	Total =	90			·
Existing No	Of Lots =		· Cidio Eo							
Existing No Broke:							i			
xisting No Broke: xisting No		110 (backlog)		s =	47	Total =	157			
xisting No Broke: xisting No Bulga:	Of Lots ≃		Future Lo		47 9	Total =	157 44			

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	! U/S	D/S	Locality	Inside	Length	Year	R	eplacement	Comment	
Asset ID No	Mat'l Type	Node No	Node No		Dia (MM)	(M)	Constr'd		Cost		
		1,32	110		Vicinal				med CPI increase 0%, 6/03 to 6/04)		ļ
From "WA"	TER.DB"		ļ	ļ							
		221			70		291	-			
Existing A	ssets							e	4 CE4 200 7F	C.A. T-(c)	
						-	<u> </u>	\$	1,651,308.75	200-10(3)	-
9101 Mt Thorley	Hist Cost=		Land	CCF=	1.24		1980	\$	11,595.24	Assumed only 60% of land for T. Nost & Bidg applied	
	1.0 ML Ste	el Standpipe Re		ļ			1980	\$	516,030.00	\$ 428,480.00	<u> </u>
	Control Va	ilve (estimated) iisition (estimate	I							\$ 2,575.00	<u> </u>
	Access Ro	nad (estimated)	(a)				1980			\$ 82,400.00 \$ 2,575.00	
	Est Cost=		Bldg & Sit	e Service	: 98		1980	\$	100,000.00		
Naleen Pur	np Station	<u> </u>	<u> </u>	ļ			1998	\$	107,120.00		<b> </b>
	Installed P	ower = 10.0 kW					1990	Ψ	107,120.00	\$ 45,320.00	
		iisition (estimate ad (estimated)	ed)					ļ		\$ 51,500.00	L(
		Site (estimated)								\$ 5,150.00 \$ 5,150.00	ļ. ļ
Delivery Ma	in From &	Along Putty Ro	nd (Cinalat	~=\ T= A4		1					
(MT001	UPVC	NMT1	NMT2	Only 10 M	200	7,000	1998	\$	901,250.00	\$ 684,950,00	
MT002	UPVC	NMT2	NMT3		150	3,000	1998	Ţ		\$ 216,300.00	)
 Distribution		rift Close	ļ					\$	26,908.75		
(6172	UPVC	N1059	N1061	THOR	200	115	1979	1	20,000.70	\$ 11,252.75	
6173	UPVC	N1061	N1073	THOR	200	160	1979	-	W-5340 ************************************	\$ 15,656.00	)
BDID OTT					<u> </u>			1			
BRIDGMAN	N RIDGE/H	UNTERVIEW						\$	85,098.60	Total	
Bridgman F							***************************************	ļ			
Existing No Hunterview		0	Future Lot	s =	800	Total =	800				
Existing No		713	Future Lot	s =	187	Total =	900	ļ			
		713			987		1700	1			
Future Ass	ets							\$	07 000 00		
								**	85,098.60	Sub-Total	
	UPVC UPVC				375 250	290 132	2006 2007	\$	68,103.60 16,995.00		
BROKE								\$	1,548,317.00	Total	
Existing No	Of Lots =	110 (backlog)	Future Lot	s =	47	Total ≃	157	ļ	· · · · · · · · · · · · · · · · · · ·		+
Future Ass	ets										<u> </u>
1			***************************************					\$	1,548,317.00	Sub-Total	
Broke W.S.	System (w	ithout retic mair	ns, cost = \$	1,548,31	7.00)		2005	\$	700,000.00		
(Cost derive	O ROITI WE	U's Broke W.S.	кероп, Ји	iy 2003)			2006	\$	848,317.00	*** AAAAAAAAAAAAAA	
BIII CA								İ			
BULGA								\$	743,000.00	Total	
Existing No	Of Lots =	35 (backlog)	Future Lot	s =	9	Total =	44				
Future Ass	ets							•	710 000 0-		
			i					\$	743,000.00	Sub- fotal	
9,700m of 7	5mm O.D.	poly feeder mai	in (Mt Thori	ley to Bul	lga)		2012	\$	533,000.00		
2,000111 01 6	J U.D. aisi	ribution main (w	vitinin Bulga	y			2012	\$	210,000.00		
2 A BADEDIT	P4 ( )										
CAMBERW	CLL						***************************************	\$	547,000.00	Total	
xisting No	Of Lots =	67 (backlog)	Future Lots	s = -	6	Total =	73				
uture Asse											1
Ī								\$	547,000.00	Sub-Total	1
,700m of 6	3mm O.D.	poly feeder mai	n				2020	\$	407,000.00	The state of the s	· <del> </del> · · · · · · · · · · · · · · · · · · ·
,uuum ot 5	UMM O.D.	distribution mair	n				2020	\$	140,000.00		
											-
ERRY'S PI	AINS (A S	Separate Syster	n To Singl	eton)				\$	874,732.65	Total	1
xisting No	Of Lots =	58	Future Lots	; =	28	Total =	86			A CONTRACTOR OF THE CONTRACTOR	
1								.74\			
xisting As	sets							\$	781,569.15	Sub-Total	1

C:\BEN\WATER\Water Assets - Existing & Future 1% - 050214

1% Allotment Growth

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Table 4 (Water Assets - Existing and Future)

Water	Pipe	U/S	D/S	Locality	Inside	Length	Year	Repla	cement	Comment	
Asset ID	Mat'l	Node	Node	1	Dia	(M)	Constr'd		Cost		
No	Type	No	No	1	(MM)			(Assumed	CPI increase		
								of 3,0%, 6	5/03 to 6/04)		
From "WA	TER.DB"							1			
							,,,	İ			
				1				1			
	80mm uPV	C trunk main				11354	2003	\$	491,174,04		
	(for 90mm)	poly)		Ĭ							
	100mm DIC	L trunk main		1		620	2003	\$	52,365,20		
	(for 80mm)	Victaulic Couple	d galvani	sed steel	pipe)						·
Reservoir	32 KL conc	rete tank at Pla:	shett (esti	mated)			2003		10,300	t	·····
Section 2.	Control Val	ve (estimated)		1			2003		2.575		
	Land Acqui	sition (estimate	d)				2003				
	Access Roa	ad (estimated)					2003		ก		
Underbore	Gully Cross	ing (80m)					2003		4.759	1	
Underbore	River Cross	ing (200m)					2003	†	72,840		
6214	UPVC	N1140	N1135	JERR	100	450	1989	\$		Queen Street	
6217	UPVC	N1133	N1099	JERR	100	170	1989	\$		Pagan Street	
6219	UPVC	N1099	N1100	JERR	100	140	1989	\$		Pagan Street	
	UPVC			JERR	90	425	1989	\$	23,200 75	Pagan Street	
	UPVC	N1108	N1231	JERR	100	224	1999	\$		Pagan Street	
	UPVC	P.S.	N1231	JERR	100	1294	2001	S		P.S. to Pagan Street	
										o. to , agair outcot	
Future As	sets							\$	93,163.50	Sub-Total	
		i						j			
Table 3.1	100mm uP\	uPVC trunk main		1	1	450	2005	\$	24 565 50	Queen Street	
Table 3.1	100mm uP\	/C trunk main	***************************************			200	2005	\$		Queen Street	
	(for 160mm	poly)			/				10,010.00	Queen Olicet	
Reservoir	120 KL con	crete tank in Qu	en St (es	timated)		***************************************	2005	\$	15,450.00		
		/e (estimated)		1			2005	\$	1,030.00		
	Land Acquis	sition (estimated	i)				2005	\$	20,600.00		
	Access Roa	d (estimated, fo	or gate)				2005	\$	20,600.00		

	SINGLETON COUNCIL - STRATEGIC ACTION PLANNING - 1%																															
	WATER	ION PI	LANNINI	3 - 1%							-						-		-	-				-	-		1		1	$\vdash$	-	
$\vdash$	CAPITAL WORKS (\$000)	03/04	04/05	05/06	06/07	07/08	03/09	09/10	10/11	11/12	12/12	12/14	14/16	15:15	46/47	17/10	19/10	10/20	20/24	24/22	22/23	72/24	24/25	25/26	20127	27/20	00/00	00/00	20/24	31/32	20/20	T-1-1-
	New Works - Growth(other new assets)			-		07700	00,00	03/10	70771	11/12	12/13	157 (4	14/15	13/10	10/1/	1//10	10/19	19/20	20121	21122	2023	23124	24/25	23/26	20/2/	21128	20129	29/30	30/31	31/32	32133	Totals
	Gowrie Reservoir Upgrades 10 MI														-									-	-					$\vdash$	-	0
-	Retreat - 1813m x 150mm main	-	15	15	15	15	15	15	15	15	15																		-		5250	5250
	Bridgman Ridge/Hunterview:-			10																					<b>-</b>	<u> </u>						131
	1500m x 250mm main 2015m x 375mm main	-	+	473	29	29	29	29	29	29	29	29	29		-									-			-	-	-			263 473
	132m x 250mm main Valve Hunterview				17 60																											17 60
	Valve AICV		1	60		<del> </del>									-				-								+	-			-	60 60
	Pinnacle Estate:- 394m x 250mm main		-	-	5		-					-	-		-																	
	3335m x 200mm main		30	30			30	30	30	30	30	30	30	30	30	30	30											-	-	<b></b>		69 447
	Maison Dieu Industrial Estate:- 150mm Main Extension - Maison Dieu Rd	9	-	<del> </del>									-			_					-							<u> </u>				0
	Pressure Boost		32		122																											32
	1697m x 150mm main Gowrie Gates:-	-	+-	1	122			-							-		-										-	<del> </del>	-	$\vdash$	$\vdash$	122
	300m x 150mm main 1000m x 200mm main				3	3 12	3 12	3	3 12	3 12	3	3 12	3 12	3 12	3																	32
	Gresford Road:-				12	12	12	12	12	12	12	12	12	- 12	12					_									-			9 32 122 0 32 134 0
_	Pump Line (1070m x 100mm)	-	200		77																						-				=	200
	Delivery Line (1860m x 80mm)				105																											200 77 105 45
	Booster Pump Station Elevated Tank (100 KL x 12m High)				45 125				_											-		-1		$\vdash$				-	_	$\vdash$		125
-	Other New Works Hunterview Estate Reservoir	-			1100														100		50		100		50		100		50		100	125 550
	Pioneer/Dyrring Reservoir														-						-			-			-				_	1101
-	Sub-total	10	281	582	1745	93	93	93	93	93	93	79	79	49	49	34	34	. 0	100	0	50	0	100	0	50	0	100	0	50	0	5350	9303
	New Works - ILOS(subsidised scheme)																															
	Obanvale Balance Tank (Concrete)		-						250						-	-				-	-									-		250
	Minor Mains Improvements Glen Creek Darn Booster PS							161	161 850	161								161	161	161								161	161	161		250 1449
	Treatment plant						222		850			217					193				-										_	850 632
	Jerry's Plains Broke	383	700	1270		54 50		37 50		48				50						=					50							559 2170
	Telemetry rehabilitation	35	30	15						100										150					50					180		510
	Camberwell Bulga			-	_					743		15		15			$\rightarrow$	547					20	-								547 793
	Orought Planning/Disaster Control Sub-total	418	767	1285			200			1052			950																			950
					. 0	104		248	1261		- 0	232	950	65			193	708		311	0	0	20	0	50	0	0	161	161	341	0	8710
	Total	428	1048	1867	1745	197	315	341	1354	1145	93	311	1029	114	49	34	227	708	261	311	50	0	120	0	100	0	100	161	211	341	5350	18013
	Minor New Works																														$=$ $\pm$	
	Repaint Rix's Creek reservoir			-	-			-					158						-	-	$\rightarrow$	-								$\rightarrow$	-	158
	Repaint Apex reservoir Repaint Retreat reservoir			75																				75								150
	Repaint Mt Thorley reservoir				63													95							63					-+		95 126
$\vdash$	Repaint Hunterview reservoir								$\rightarrow$																	158						158
	Total	0	0	75	63	0	0	0	0	0	0	0	158	. 0	0	0	0	95	0	0	0	0	0	75	63	158	0	0	0	0	0	687
	Renewals												_							_	-									-	-	
-	Water service replacement	90	92	93	94	95	96	97	98	99:	100	101	102	103	104	105	106	107	108	109	110	111	112	113	115	116	117	118	119	120	122	3167
	Main Renewals						103	104	105	106	427	369	109	110	428	113	114	115	321	373	318	320	321	422	423	424	426	427	428	429	431	7267
	Valves & Hydrants Minor Mains Replacement	102	122	111	136	102	21 97	21 98	99	100	101	22 102	103	104	105	106	107	108	109	110	24 111	113	114	25 115	25 116	25 117	25 118	26 120	26 121	122	26 123	685 3313
	Glen Creek Dam Booster PS									34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			680
	Village Serv installations Treatment plant	90			121	123		125	126	128	129	130	131			135	137	138	140	141	142	144	145	147	148	150	151	153	154	156	157	4071
-	Telemetry Water pump stations	20	16 16	16	16	16 16	17	17	17	17	17	17	18	18		18	18	19	19 19	19	19	19	20	20	20	20	20	21	21	21	21	538
	Meters & Non Return Replace	8	20	20	16	21	21	21	21	21	22	22	22	22	23	18	23	23	23	24	24	24	20	20 25	20 25	20 25	20 25	21 26	26	21	26	555 677
	Mechanical/Electrical Renewals	-					-		-	85		85		85	-	85				85	85	85	85	85	85	85	85	85	85	85	85	1360
	Total	330	406	398	426	395	496	500	505	630	870	901	560	650	887	661	581	587	797	939	889	894	900	1006	1012	1018	1024	1030	1036	1008	1014	22348
	GRAND TOTAL	758	1454	2340	2234	592	811	842	1860	1775	963	1211	1747	765	936	695	809	1390	1058	1250	939	894	1020	1081	1175	1176	1124	1191	1247	1349	6364	41047
<b>—</b>	Expected 35% Subsidy on following ILOS F	rojects		=					$\neg$						-		$\rightarrow$															
		· Jucts																													_	
	Broke Bulga		245	445						260	-			-									-	-						-	-	690 260
	TOTAL SUBSIDY	0	245	445						260																						1
	101M2 3083ID1	0]	245	445	0	01	0)	0	0	260	0	0	0	0	0	0]	0	0	0]	0]	0	0	0)	0	0	0	0	0	0	0	0	950

Table 5 (Water Capital Works)

C18ENWATERWater CW 2% 1% 0.5% - 041110 Water - CW 1% Nov 04 Page 1 of