

5.4.0

*WATER
& WASTE*

5.4.i

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Overall Triple Bottom Line Objectives

- All of the Unit activities shall conform to the principles of The Natural Step

Serving the Community By

- Supplying water and disposing of waste in a manner that will achieve agreed and understood levels of service and agreed community outcomes
- Complying with legislative requirements including those relating to public health
- Being a good employer by implementing best practice in human resources management through matters such as recruitment, remuneration, EEO and training
- Inspiring community and business group ownership through partnerships, consultation and education on key issues
- Providing education to increase knowledge of key water and waste issues and to encourage behavioural change
- Maintaining cultural sensitivity recognising the special role of Tangata Whenua

Sustaining the Environment By

- Adopting an advocacy role outside our immediate community for survival of the planet
- Ensuring everything we do is based on sustainable best practices
- Developing partnerships with Central Government to further the goals of waste minimisation
- Conforming with the Natural Step principles including mimicking and restoring natural ecosystems

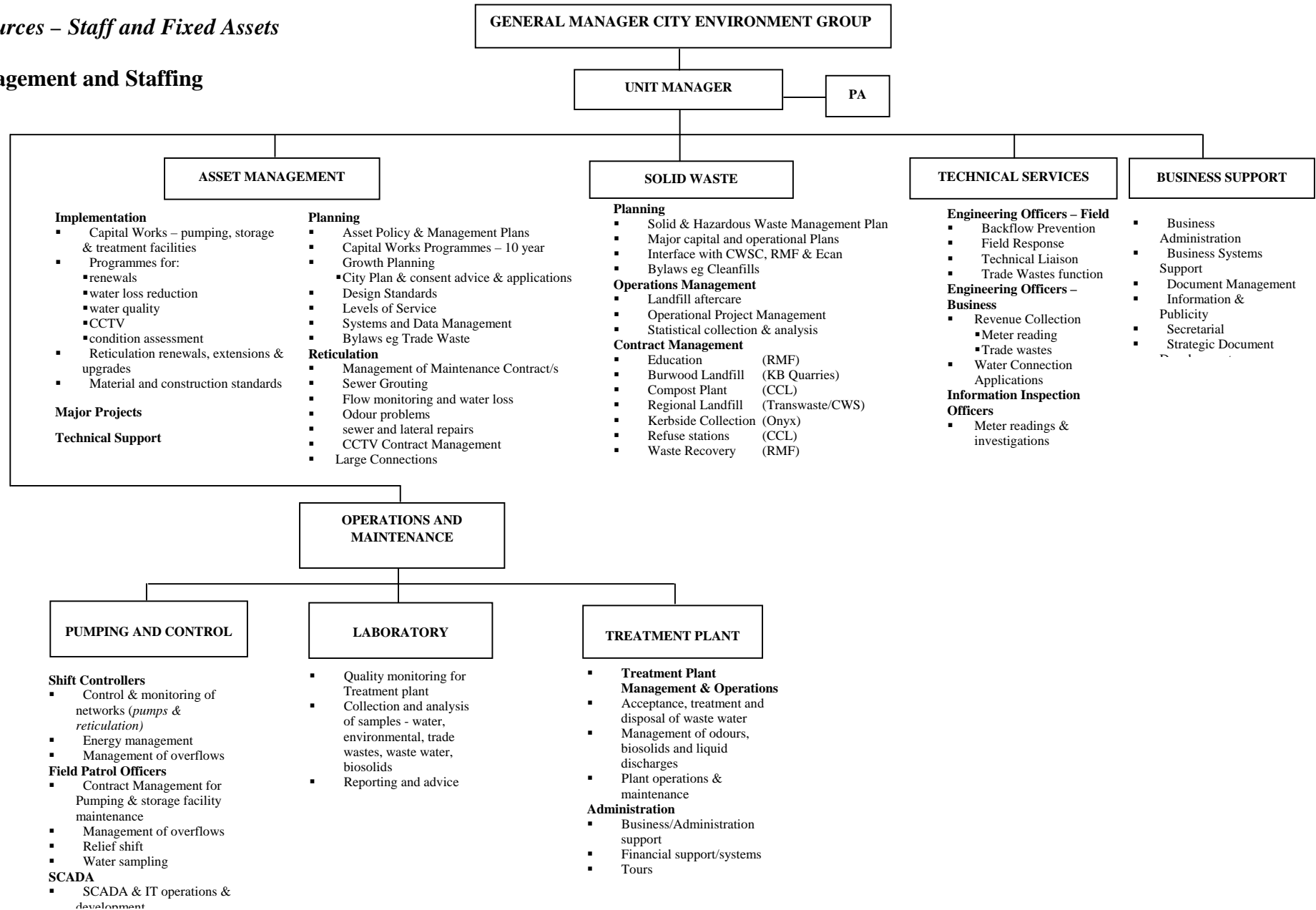
Providing Economic Value By

- Managing water and waste activities in accordance with sound accounting and financial practices
- Planning and operating activities on the basis of lowest total life costs
- Conducting regular reviews of our activities to ensure efficiency and cost effectiveness while maintaining levels of service

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Resources – Staff and Fixed Assets

Management and Staffing



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Fixed Assets

Water

- 53 primary pumping stations (sites with wells that abstract water) plus 40 secondary pumping stations (many, but not all are located at reservoirs)
- 1,360 km water mains and 1,300 km water submains
- 115,000 connections
- 166 wells
- 26 standby diesel engines
- 7 principal bulk storage reservoirs plus 30 secondary reservoirs
- Instrumentation and Control System
- Total replacement value \$312M, current depreciated value \$197M at June 2002

Wastewater

- 86 sewer pumping stations
- 1,560km of sewer mains in public roads and 940 km of sewer laterals in public roads
- 118,000 connections
- 22,700 manholes
- 1,600 flushtanks
- 2 treatment plants
- Total replacement value \$836M, current depreciated value of \$511M at June 2003

Solid Waste

- 3 refuse stations
- 1 compost manufacturing plant and collection centres located at the refuse stations
- 3 recycling centres located at the refuse stations
- 1 landfill

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Budget Summary

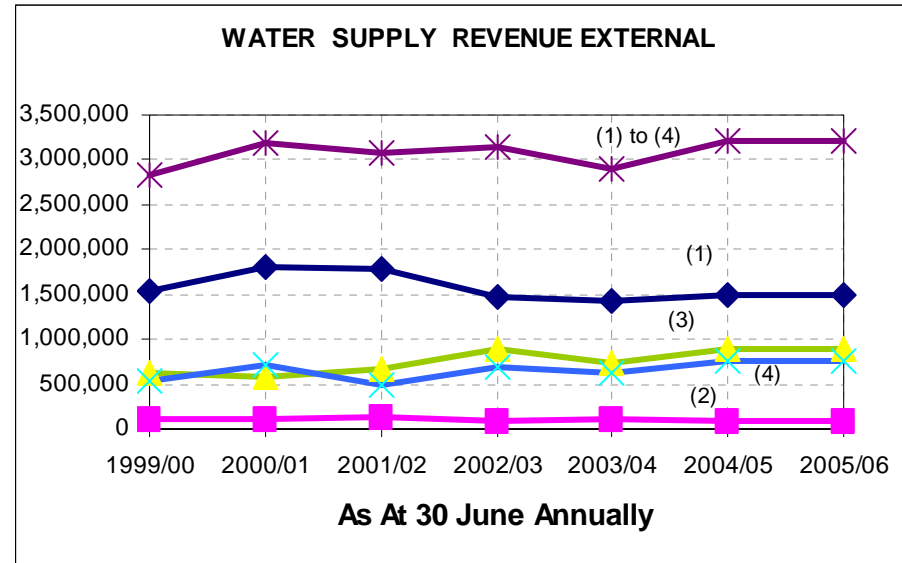
• Water Supply operational	gross cost \$15.3M	revenue \$3.7M	net cost (on rates) \$11.6M
• Water Supply capital	cost \$5.4M		
• Wastewater operational	gross cost \$24.7M	revenue \$5.2M	net cost (on rates) \$19.5M
• Wastewater capital	cost \$10.7M		
• Solid Waste operational	gross cost \$27.0M	revenue \$26.0M	net surplus \$1.0M
• Solid Waste capital	cost \$6.0M		

Future Projections

The Unit budget is based on future projections for costs and revenues. These in turn are based on best estimates of various key trends which are outlined below. If for some unforeseen reason (eg, an economic recession or upturn) trends vary from best estimates then the Unit end of year financial result will differ from budget either up or down.

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Water Supply Revenue & Consumption Charge



Water Supply Revenue

Year to 30 June		Water Billing Revenues (1)	Reticulation Contract Services. (2)	New Connection Fees (3)	Headworks Capacity Upgrade Fees (4)	Total External Revenues (1) to (4)
1999/00	Actual	1,542,000	105,000	632,000	546,000	2,825,000
2000/01	Actual	1,810,000	105,000	578,000	703,000	3,196,000
2001/02	Actual	1,779,000	123,000	665,000	500,000	3,067,000
2002/03	Actual	1,472,000	84,000	892,000	701,000	3,149,000
2003/04	Budgeted	1,433,000	113,000	734,000	627,000	2,907,000
2004/05	Projected	1,713,000	80,000	886,000	750,000	3,429,000
2005/06	LTOP	1,700,000	80,000	886,000	750,000	3,416,000

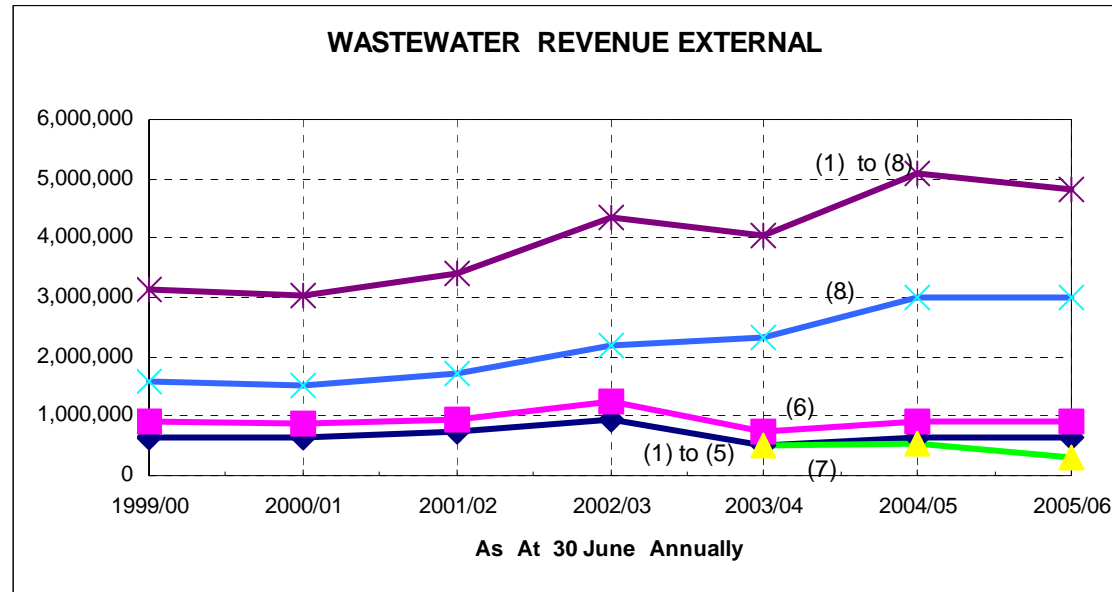
Cost Of Water Abstracted

Water Abstracted 5 yr Average CuM (5)	Expenditure Exc GST	Cents per Cubic Meter Incl GST
49,200,000	13,251,000	30.30
49,616,000	12,767,000	28.95
49,300,000	13,187,000	30.09
49,419,000	13,088,000	29.79
50,000,000	13,993,000	31.48
50,000,000	14,871,665	33.46
50,000,000	14,900,000	33.52

- Notes:**
- (3) This fee is for water meter, valve, toby box costs etc.
 - (4) This fee is for capital infrastructure recovery costs
 - (5) There is a 15% loss between water abstracted and water supplied due to fire hydrant usage etc.

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Wastewater Revenue

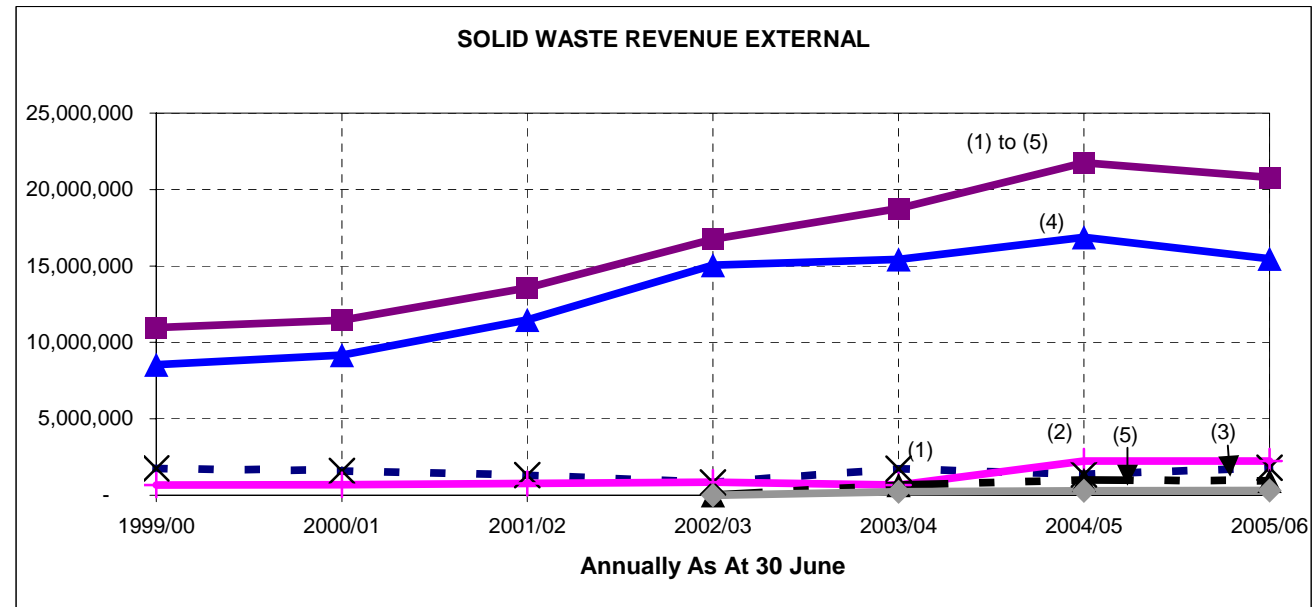


Year to 30 June		Energy Sales (1)	Tankerred Waste & Airport (2)	Cross Boundary Recoveries (3)	Reticulation Recoveries (4)	Misc.- Laboratory, Scrap, Plans, etc (5)	Total Retic. & CWTP Revenues etc (1) to (5)	CWTP Capacity Upgrade Fees (6)	Reticulation Capacity Upgrade Fees (7)	Trade Waste Revenue (8)	Total External Revenue (1) to (8)
1999/00	Actual	240,000	213,000	98,000	49,000	25,000	625,000	919,000		1,578,000	3,122,000
2000/01	Actual	207,000	172,000	95,000	121,000	38,000	633,000	877,000		1,523,000	3,033,000
2001/02	Actual	208,000	181,000	105,000	176,000	58,000	728,000	945,000		1,715,000	3,388,000
2002/03	Actual	282,000	205,000	109,000	222,000	121,000	939,000	1,233,000		2,180,000	4,352,000
2003/04	Budgeted	150,000	170,000	105,000	37,000	45,000	507,000	738,000	500,000	2,315,000	4,060,000
2004/05	Projected	185,000	225,000	127,000	52,000	66,000	655,000	900,000	550,000	3,001,000	5,106,000
2005/06	LTOP	185,000	225,000	127,000	52,000	45,000	634,000	900,000	300,000	3,000,000	4,834,000

Notes: (3) Cross Boundary Recoveries = Prebbleton, Tai Tapu, Lincoln/Springston
(4) Reticulation Recoveries = Sewer Lateral Recoveries, Cost Sharing Contributions, Storm Water Inflow Recoveries.
(6) & (7) These fees are for capital infrastructure recovery costs

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Solid Waste Revenue

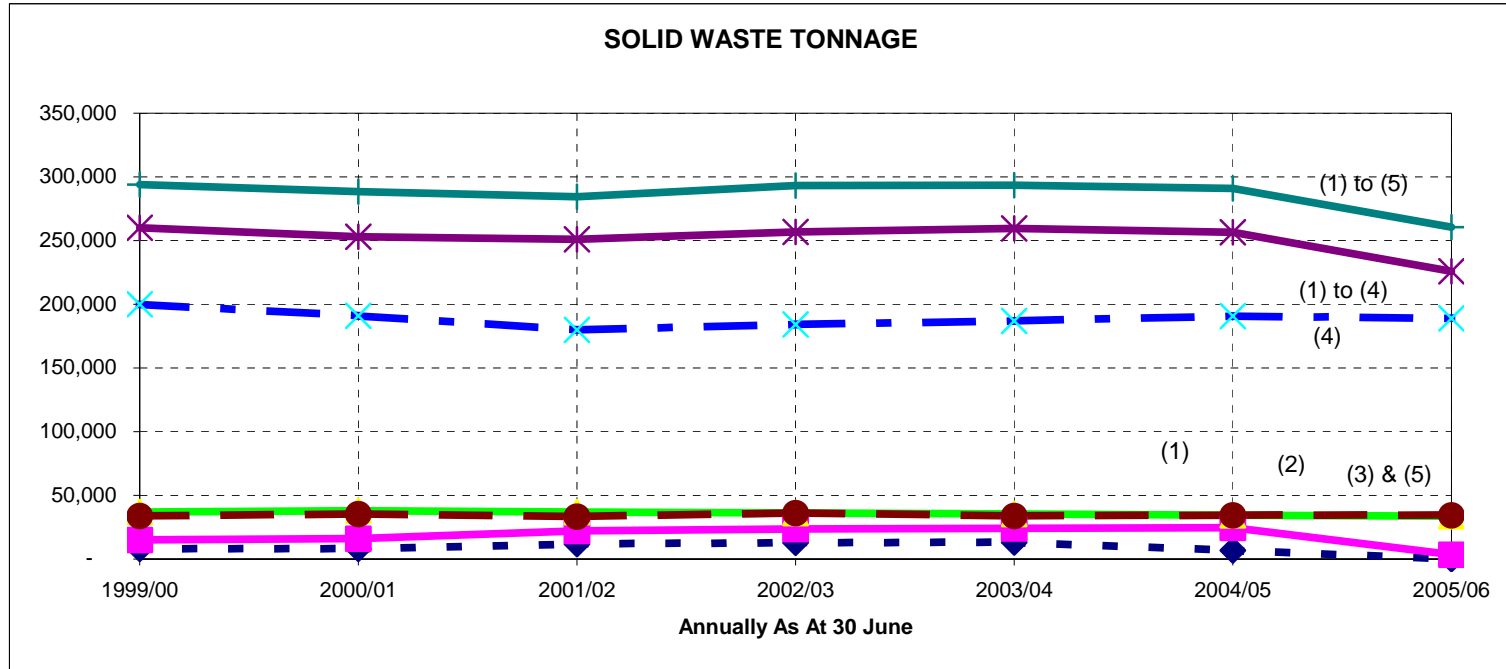


Year to 30 June		Greenwaste & Compost Sales (1)	Black Bags Sales (2)	Hardfill Operators Levy (3)	General Refuse (All Other Tipping Fee Rev incl Misc Revenue) (4)	Kerbside Recycling Return from RMF (5)	Total External Revenue (1) to (5)
1999/00	Actual	1,757,000	674,000		8,537,000		10,968,000
2000/01	Actual	1,591,000	690,000		9,166,000		11,447,000
2001/02	Actual	1,319,000	770,000		11,483,000		13,572,000
2002/03	Actual	847,000	851,000	0	15,050,000	0	16,748,000
2003/04	Budgeted	1,740,000	665,000	680,000	15,439,000	238,500	18,762,500
2004/05	Projected	1,351,000	2,250,000	1,000,000	16,867,000	297,000	21,765,000
2005/06	LTOP	1,794,000	2,250,000	950,000	15,476,000	321,000	20,791,000

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Solid Waste

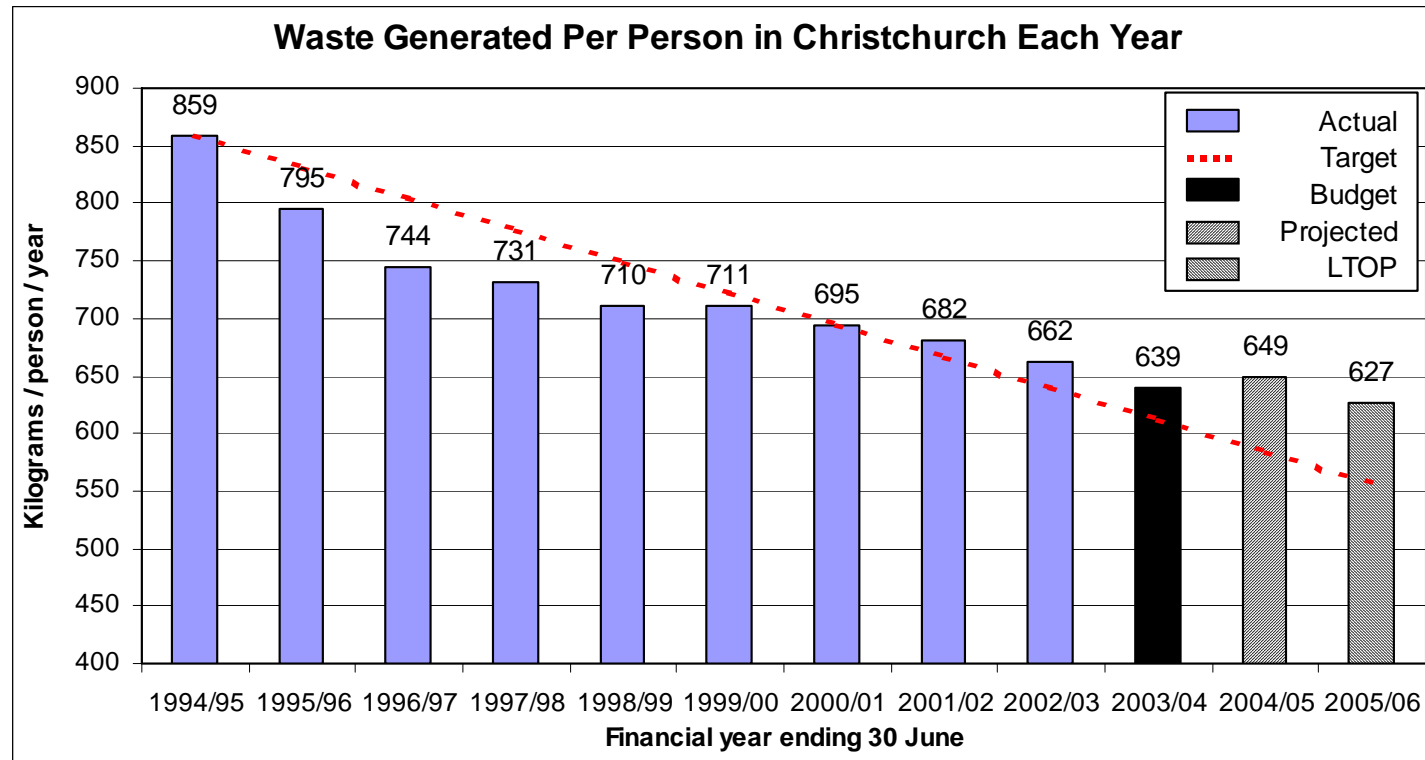
Refuse Tonnage



Year to 30 June		Hardfill to Landfill (1)	Other Councils (2)	Black Bag Collection (3)	General Refuse (4)	Total Refuse and Hardfill (1) to (4)	Greenwaste (5)	Total (incl green) (1) to (5)
1999/00	Actual	8,000	15,000	37,000	200,000	260,000	34,000	294,000
2000/01	Actual	8,000	16,000	38,000	191,000	253,000	35,500	288,500
2001/02	Actual	11,900	22,000	37,000	180,000	250,900	33,500	284,400
2002/03	Actual	12,800	23,600	36,300	184,200	256,900	36,300	293,200
2003/04	Budgeted	13,000	24,000	35,500	187,000	259,500	34,000	293,500
2004/05	Projected	3,000	27,525	33,000	221,000	284,525	30,500	315,025
2005/06	LTOP	0	3,400	33,600	189,000	226,000	34,500	260,500

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Reduction Goals



This graph is based on the actual refuse quantities and population figures from Statistics New Zealand Christchurch Quarterly Review.

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Solid Waste

A brief comment on each of the solid waste streams and the proposed charges for these streams follows:

Proposed Charges (including GST)

General Refuse

Despite a long-term downward trend, the general refuse tonnage has increased with the buoyant Canterbury economy. Consequently the estimate for 2004/05 is an increase of 3,730 tonnes from 2003/04

Refuse:	99.25/t
Hardfill:	35.80/t

Black Bag Collection

The black rubbish bag tonnage continues to decrease only slightly, despite an increase in kerbside recycling tonnage. The 2004/05 estimate is a decrease of 1,000 tonnes from 2003/04

Refuse:	99.25/t
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Other Councils

With the closure of the Selwyn District Landfill, the amount of waste received from other Councils is expected to increase, however, the diversion of waste to Kate Valley part way through the year reduces this increase, resulting in an overall small 575 tonne increase from 2003/04.

Refuse:	33.90/t
(Hurunui)	(16.88/t)

Hardfill to Burwood

Part way through the year Burwood will close as Kate Valley comes on line. Hardfill will be sent to cleanfill resulting in a 6,250 tonne decrease in hardfill to Burwood from 2003/04.

Hardfill:	35.80/t
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Greenwaste

Alternative and cheaper greenwaste disposal options have resulted in some major customers taking greenwaste elsewhere. This is reflected by a levelling off of greenwaste compost by the Council at 34,500 tonnes.

Greenwaste:	59.50/t
(60% of refuse fee)	

Treated Hazardous Waste

Hazardous waste tonnages remain stable and are included in the general refuse tonnage. (However increasing use is being made of the household hazardous waste drop-off centres.)

	121.75/t
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Direct to Burwood Charges

The Council allows general refuse loads of 20 tonnes and greater to go direct to Burwood at a reduced tipping fee. This fee will be maintained until Burwood closes except for minor CPI adjustments.

	66.30/t
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Cleanfill Levy

Subject to final bylaw approval, a Waste Minimisation Levy is to be applied on selected materials being disposed of at cleanfills within Christchurch City boundary. The objective is to secure waste minimisation funding and encourage the beneficial use of resources being disposed.

	10.10/t
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REVENUE SENSITIVITY ANALYSIS

The calculation of revenue is not an exact science. It is based on many variables such as predicted population increase, subdivisional development, past trends and the like. In the past the Unit has tended to under predict revenue to avoid a 'bad' (overspent) financial result. This is one of the key reasons the Unit has been underspent for the past two to three years.

Because it is impossible to precisely predict revenue, the budget is based on a 'most likely' scenario which is labelled 'realistic' in the table below. Also shown are 'optimistic' and 'pessimistic' revenue assessments. The point to note here is the final result is expected to lie in the band between upper bound 'optimistic' and lower bound 'pessimistic'. The final outcome will only be known after 20 June. The table encompasses external revenue stream over \$100,000.

	Pessimistic		Realistic (ie 2004/05 Budget)		Optimistic	
	(\$000's)	%	(\$000's)	%	(\$000's)	
<u>Water Supply</u>						
Water Sales	1,540	-10	1,713	+10	1,885	(1)
New Connection Fees	634	-25	845	+10	930	(2)
Water Supply Capacity Upgrade Fee	560	-25	750	+10	825	(2)
Sub-Total Water Supply	2,734	-17	3,308	+10	3,640	
<u>Wastewater</u>						
Trade Waste Charges	2,780	-15	3,269	+10	3,595	(1)
Sale of Energy CWTP	165	-10	185	+10	205	
CWTP - Capacity Upgrade Fee	675	-25	900	+10	990	(2)
Reticulation Capacity Upgrade Fee	415	-25	550	+10	600	(2)
Sub-Total Wastewater	4,035	-18	4,904	+10	5,390	
<u>Solid Waste</u>						
Cleanfill Waste Minimisation Levy	600		1,000		1,000	
Waster Pays Black Bag Sales	1,600		2,250		3,200	
Greenwaste Tipping Fees	1,450		1,351		1,450	
Refuse Tonnage	16,000		16,866		17,300	
Kerbside Recycling Return ex RMF	270		297		315	
Sub-Total Solid Waste	19,920	-8	21,764	+7	23,265	(1)
Total Revenue Sensitivity for Unit	26,689	-10	29,976	+8	32,295	

Notes: (1) dependent on strength of economy

(2) dependent on building and subdivision activity

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Notes

Revenue for the Unit is made up of many streams - refer to the preceding tables and graphs. The sensitivity table above analyses only the significant revenue streams.

The Solid Waste revenue is based on the following tonnages of refuse (excludes black bags):

Pessimistic	245,000t
Realistic	252,000t
Optimistic	576,000t

The change in revenue/tonne of refuse = number of tonnes x \$88.22/tonne.

Note here that for Solid Waste 'optimistic' and 'pessimistic' refers to revenue not environmental waste minimisation targets.

KEY CHANGES OPERATIONAL

The summary table below schedules the main items contributing to the difference between the 2003/04 and 2004/05 operating budget.

It is to be appreciated that with each of the Water Supply, Wastewater and Solid Waste budgets being very large in their own right, it is impractical to itemise each and every change. For these reasons there are a large number of minor saving and committed cost increases that balance each other out that are not reported here.

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Table of Committed Cost Differences between 2003/04 and 2004/05 Operational Budget

	\$000	Note () = Cost saving or External Revenue increase
Net Operating Plan CW&W 2003/04 Balance	31,337	(1) = Adjustment due to changed assessment of requirement for 2004/05 versus previous year
<u>Key Controllable Changes 2003/04 to 2004/05</u>		
Net Cost Water Supply	-634	as scheduled below
Net Cost Wastewater	311	as scheduled below
Net Cost Solid Waste	622	as scheduled below
Net Key Controllable Costs Subtotal	299	
<u>Key Non-Controllable Changes 2003/04 to 2004/05</u>		
Corporate & Financial Services Unit Overhead Allocation	508	
Rental, Debt Servicing, ACC, ITS, Insurance & Staff Time to Capex Outputs	8	
Water & Wastewater Infrastructure Rates	15	
Depreciation	-221	
Asset Write off Due to Replacement	175	
Net Key Non-Controllable Costs Subtotal	485	
Net Operating Plan 04/05 Balance	32,121	
<u>Key Controllable Changes</u>		
Water Supply		
Capital Works Revenue increase	-275	Due to continued residential development
Headworks - Electricity	-130	(1)
Reticulation - Asset Write-off due to Replacement	-200	Due to reduction in water mains renewals per AMP and now replacing older pipework
Other Miscellaneous Direct Costs	-29	(1)
Net Cost Water Supply	-634	

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Wastewater		
Trade Waste Revenues increase	-748	From increase in trade waste charges plus continued improvement in locating liable companies as GEMS reporting improves
Sewer Grouting	700	Shift from capital expenditure to operational expenditure
Biosolids Application	200	New cost previously covered by LAPP policy, now no longer available for this CWTP item
Biosolids Polymer	402	(1)
Capacity Upgrade Revenue increase	-162	Due to continued residential development
Other Miscellaneous Direct Costs	-81	(1)
Net Cost Wastewater	311	
Solid Waste		
Onyx Contract - Kerbside Recycling Collection	926	Effect of waster pays and anticipated recycling growth
Onyx Contract – Kerbside Refuse Collection	-124	Effect of waster pays expected to decrease refuse
Black Refuse Bag Sales increase	-1,585	Increased sales due to waster pays introduction
Kate Valley Landfill Refuse Fees	2,772	Closure of Burwood and fee increase for Kate Valley (980+1,093+600)
Refuse Station Tipping Fees from public tipping	-2,234	Increase in tipping fee value and tonnage (682+853+514)
Burwood Landfill – KB Quarries Contract	-237	Closure of Burwood with move to Kate Valley
" " - Cover material	-425	Closure of Burwood with move to Kate Valley
" " - Site Maintenance	122	Item only covered fence maintenance in the past, now encompasses a range of Site Mtce
" " - Consent Monitoring	-110	
" " - Rehabilitation	475	Final Capping Stage 2E
" " - Gas Control	-633	Reflects completion of initial work to install new system
" " - Direct Tipping Fees	-275	Closure of Burwood with move to Kate Valley
" " - Decrease in aftercare revenue	-87	" " " "
" " - Aftercare Amortisation decrease	-441	" " " "
Recovered Materials Foundation - Project Funding	500	Projects to research and develop recyclable markets and technologies
Putrescibles Trials	125	
Compost Plant - City Care Contract	183	Contract payment increase due to CPI, increased tonnage and management takeover costs
Waste Minimisation Levy Decrease	1,377	Fee reduces from \$12 to \$8
Greenwaste Tipping Fee Decrease	389	
Cleanfill Levy revenue increase	-320	First full year of collecting the fee
Kate Valley Equalisation Fee Revenue decrease	683	Fee stops when Kate Valley opens
Other Miscellaneous Direct Costs	-276	(1)
Net Cost Solid Waste	622	

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Committed Costs (Operating)

Water Supply

• Capital Works Revenue increase	(275,000)	
• Headworks - Electricity	(130,000)	
• Reticulation - Asset Write-off Due To Replacement	(200,000)	
• Other Miscellaneous Direct Costs	(29,000)	
		Net Cost Water Supply
		(634,000)

Wastewater

• Trade Waste Revenues increase	(748,000)	
• Sewer Grouting	700,000	
• Insurance	200,000	
• Biosolids Polymer	402,000	
• Capacity Upgrade Revenue increase	(162,000)	
• Other Miscellaneous Direct Costs	(81,000)	
		Net Cost Wastewater
		311,000

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Solid Waste

• Kerbside Recycling Collection - Onyx Contract	926,000
• Refuse Collection (Black Bag) - Onyx Contract	(124,000)
• Black Refuse Bag Sales increase	(1,585,000)
• Refuse Stations Fee Kate Valley Landfill Refuse Fees	2,772,000
• Refuse Stations Tipping Fee Revenue from public tipping increase	(2,234,000)
• Burwood Landfill Contract KB Quarries Contract	(237,000)
• " " Cover Material	(425,000)
• " " Site Maintenance	122,000
• " " Consent Monitoring	(110,000)
• " " Rehabilitation	475,000
• " " Gas Control	(633,000)
• " " Direct Revenues decrease	(275,000)
• " " Aftercare Amortisation decrease	(441,000)
• " " Aftercare Revenues decrease	(87,000)
• Recovered Materials Foundation - Project Funding	500,000
• Putrescibles Trial	125,000
• Compost Plant - City Care Contract	183,000
• Waste Minimisation Levy Revenue decrease	1,377,000
• Green Waste Tipping Fee Decrease	389,000
• Cleanfill Levy revenue increase	(320,000)
• Kate Valley Equalisation Fee Revenue decrease	683,000
• Other Miscellaneous Direct Costs	(276,000)
	Net Cost Solid Waste 622,000

Committed Costs (Operating) approved by Council subsequent to the Council meeting of 15 July 2003)

Water Supply Nil

Wastewater Nil

Solid Waste Nil

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Fee Changes

Water Supply

The Water Supply allowance in m³/per annum from non residential properties is currently calculated as (water rate/property) ÷ (27c/m³). It is proposed to raise this allowance calculation factor and the cost per c/m³ for excess water over this allowance from 33c/m³ to 38c/m³ to reflect the true cost of water delivered to the customers which makes allowance for overheads such as fire fighting, flushing, leakages and the like. The financial impact will be as follows:

Fee and Revenue Increases				
	2003/04	2004/05	2005/06	
Allowance Calculation Base Cents /CuM	27	38	38	Includes GST
Excess Water Charge Cents/ CuM	33	38	38	" "
External Revenue Increase in Year \$		213,000	90,000	Excludes GST
Internal Revenue Increase in Year \$		22,000	13,000	" "
Total External Estimated Revenue \$	1,422,000	1,713,000	1,803,000	" "
Total Internal Estimated Revenue \$	237,000	222,000	235,000	" "
Total Internal + External Revenue	1,659,000	1,935,000	2,038,000	" "

Note: Due to meter reading frequency, there is a lag between a change in charging, and the full impact of that change on revenue. These figures are based on water supplied.

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Wastewater

At its meeting on 30 June 2004, the Council considered a range of options for phasing out the domestic allowance for trade waste dischargers. It resolved to phase this out over a 6-year period starting in 1 July 2005. The estimated effect on revenue is as follows.

Estimated Additional Revenue							
Start Date	2005/06	2006/07	2007/08	2008/08	2009/10	2010/2011	Total
1 July 2005	30,000	26,000	23,000	21,000	19,000	17,000	136,000

Solid Waste

During the 2003/04 Annual Plan process, future tipping fees as set out in the following table (1) were agreed. The \$88.22 shown in the table below has been used for preparation of the 2004/05 budget. These charges will have to be fine tuned when Transwaste Canterbury completes its financial projections for Kate Valley Landfill.

Table 1:

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
1. General Refuse Charge \$/t total (excl GST)	86.22	88.22	88.22	88.22	90.22	90.22
2. WML (included in line 1)	12.00	8.00	8.00	8.00	10.00	10.00
3. BDFL (included in line 1)	2.00	2.00	2.00	2.00	2.00	2.00

In 2004/05 the 88.22/t would be made up as follows:

• Refuse Stations – Christchurch City Council	13.90
• Transport – Canterbury Waste Services	19.00
• Landfill – Canterbury Waste Services	45.32
• Waste Minimisation Levy – Christchurch City Council	8.00
• Business Development Fund Levy	<u>2.00</u>
Total	<u>88.22</u>

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Efficiency Gains / Additional Revenue

Water Supply

- Increased Capital Works revenue (275,000)
- Decreased Headworks electricity costs (130,000)

Wastewater

- Increased Trade Waste revenue (748,000)
- Increased CWTP Capacity Upgrade revenue (162,000)

Solid Waste

- Kerbside refuse collection reduced demand (115,000)
- Increased revenue from black bags (1,585,000)
- Bag purchase reduction from competitive tendering (85,000)
- Increased external refuse tipping fees from increased tonnage and tipping fee rate (2,234,000)
- Burwood Landfill contract cessation in March 2005 (237,000)
- Burwood gas control project (633,000)
- Landfill aftercare amortisation (441,000)
- Commercial waste reduction programme (61,000)

New Capital Initiatives

Water Supply Nil

Wastewater Nil

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Solid Waste

Project	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10
Putrescible Processing Plant In 2004/05 establish a start-up compost plant to process commercial putrescibles. Then expand to a plant capable of processing feedstock from a citywide food waste and small greenwaste collection service.	300,000	3,152,000	3,152,000			
Compost Plant surface renewal. Windrow turner operation has worn down gravel surfacing. * Stage 2 ** Stage 3	*200,000	**130,000				
Burwood New Road. Part of Burwood access road is built on crown land gifted to Ngai Tahu, who now wish to subdivide. Road needs realignment.	350,000					
Refuse Station CCTV Surveillance Upgrade. Old equipment at kiosks and in pit nearing end of life.			90,000			
(a) Total Capital Required in 2004/05 Budget	850,000	3,282,000	3,242,000	0	0	0
(b) Capital Approved in 2003/04 Budget for Compost Plant	3,152,000	2,893,000	500,000	0	0	0
(a) – (b) Variance (to realign 2004/05 Budget)	-2,302,000	389,000	2,742,000	0	0	0

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Committed Costs (Capital) approved by the Council subsequent to the Council meeting of 15 July 2003

Water Supply Nil

Wastewater Nil

Solid Waste Nil

Capital Cost Increases > 2%

Water Supply

	2004/05
• Primary pump station switchboard replacements	20,000
• Replacement pump station (increase in construction costs)	170,000
• New connections (note balanced by increased revenue)	230,000
Total	420,000

Wastewater

	2004/05
• Sewer renewals as proposed in draft review Asset Management Plan	(915,000)
• Pump Station No 11 Pressure Main upgrading	1,000
• Fisher Avenue to Pump Station 20 Trunk Main	100,000
• Pump Station 21 Upgrade	316,000
• Pump Station 22 Upgrade	100,000
• Overflow screening	100,000
• Southern Relief improvement	(200,000)
• Western Interceptor Blenheim Road at Mandeville	600,000
Total	102,000

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Solid Waste

	2004/05	2005/06
Landfill aftercare expenditure from Rehabilitation Fund		
Note: does not affect rates because funding is from pre-collected tipping fees		
• Stage 2C Consent monitoring and rehabilitation: professional fees	45,000	
• Stage 2C/2E/2D final capping	1,213,000	1,000,000
Total	1,258,000	1,000,000

KEY CHANGES CAPITAL 2004/05 (INCLUDED IN 10-YEAR CAPITAL BUDGET)

Wastewater – Belfast Station & Pressure Main

- Belfast Wastewater Treatment Plant was planned for decommissioning by replacement with a pipeline into the City's reticulation system in five years. Because the Plant is breaching its Resource Consent conditions for its current discharge into the Otukaikino Stream, (South branch of Waimakariri), it has become imperative to advance the pipeline project by bringing it forward from years 2007/08 and 2008/09 to years 2004/05 and 2005/06. The following adjustments to the capital budget have been made.

\$M	2004/05	2005/06	2006/07	2007/08	2008/09
Current 2004/05 budget	1.000	3.650		(1.656)	(1.656)

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Water Supply and Wastewater			
	Out of 2004/05 Year \$		Into 2004/05 Year \$
Water Supply		Water Supply	
Pump Replacements	-67,700	Fitzgerald Pumping Station	170,000
Westmoreland 2 Reservoir Replacement	-200,000	Primary Switchboard Replacements	19,300
Control & Indication	-147,900	New C/Ns (Schedule) - 13mm	231,341
Control System Improvement	-30,600	Invoiced Connections - over 19mm	102,000
New Mains Programme	-82,520		
New wells for growth	-204,000		
Total Out	-732,720	Total In	522,641
Water Supply Net Out	-210,079	(checks with next table)	
Wastewater		Wastewater	
Sewer Renewal - City Wide	-795,200	No. 11 Pressure Main Upgrading	1,801,000
Lifelines, Brickbarrel Renewals	-591,600	WI Blenheim Road At Mandeville	600,000
Fisher Ave to PS20 Trunk	-1,228,000	Overflow Screening	100,000
Southern Relief Improvement	-306,000	Pumping Station 21 Upgrade	316,300
Pumping Station 11 Major Upgrade	-1,540,000	Pumping Station 22	100,000
Header Manifold - Modifications	-510,000	Belfast Station and Pressure Main	1,000,000
Contract Supervision (Ex City Solutions)	-23,040	Expansion of Chch Wastewater Treatment Plant	1,300,000
Chaney's Rural Industrial Zone	-108,120	Subdivisions Sewer Cost Share Contributions	46,960
New Mains Programme	-108,120	Ocean Pipeline consent and investigations	129,082
5th & 6th Digester	-2,760,000	Oxidation Ponds Toe Drain Pump Station	200,000
"A" Panel & Large Display Screen	-32,742		
Trickling Filter - Cover Painting	-21,828		
Total Out	-8,024,650	Total In	5,593,342
Wastewater Net Out	-2,431,308	(checks with next table)	

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

KEY CHANGES CAPITAL 10 YEAR (INCLUDED IN 10-YEAR CAPITAL BUDGET)

The table below schedules the changes included in the 10-year capital budget compared to 2003/04 Capital Programme (including inflation adjustment of 2%). The changes reflect:

- reduction in sewer renewals, balanced by increase in new sewers for growth
- delaying of works to later years where appropriate to smooth expenditure and minimise carry forwards
- adjustments relating to the changed time Burwood Landfill is expected to remain open
- adjustment to the timing of Belfast Pipeline

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	Total Changes
Water Supply										
Renewal & Replacement - Infrastructural Assets										
Pump Replacements	-67,700									-67,700
Fitzgerald Pumping Station	170,000									170,000
Primary Switchboard Replacements	19,300									19,300
Secondary Switchboard										0
Westmoreland 2 Reservoir Replacement	-200,000	200,000								0
Control & Indication	-147,900	56,100	20,400	51,000	20,400					0
Asset Improvements - Infrastructural Assets										0
Control & Indication					30,600					30,600
Life Lines Mitigating Measure					51,400					51,400
Noise Control (diesel running)					18,400					18,400
Energy Efficiency Measures		100,000	102,000							202,000
Control System Improvement	-30,600	-30,600	-30,600	-30,600						-122,400
New Assets - Infrastructural Assets										0
New Mains Programme	-82,520	-82,520	101,980							-63,060
Standby Diesels		140,000								140,000
New Wells for growth	-204,000						204,000			0
New C/Ns (Schedule) - 13mm	231,341				332,000					563,341

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Description	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	Total
Renewal & Replacements - Fixed Assets										
Scada System					-208,080			300,000	300,000	391,920
National Engine Replacement		-649,230		649,230						0
Kelly Lewis Pump - Replacement		-132,090		132,090						0
"A" Panel & Large Display Screen	-32,742	32,742								0
Raw Sludge Pump Replacement		-163,000	163,000							0
Belt Press Replacement						-773,160				-773,160
BioSolids Auger			94,000			-94,000				0
FGR Bearings / Overhaul								-110,160		-110,160
Clarifiers Scrapers				110,200		-110,200				0
Soil Filter Relay					110,200	-110,200				0
Gas Compressor H. P.			110,200			-110,200				0
Bio-Solids Dewatering Feedpump							25,500			25,500
Control Communication Network Upgrade					54,100	52,000	-54,100	-52,000		0
Security Camera Upgrade					54,100	20,800	-54,100	-20,800		0
Allen Engine Control System							-108,120	-99,980	208,100	0
Allen Engine Replacement								35,360		35,360
Graphite Furnace AA				-93,400						-93,400
Phosphate Digester					12,000					12,000
Ion Chromatograph							40,000			40,000
UV/VIS Spectrometer									25,000	25,000
Kjeldahl Digester		-46,818				-14,600				-61,418
Kjeldahl Distiller			45,900					15,000		60,900
Asset Improvements - Fixed Assets										
Trickling Filter - Cover Painting	-21,828		76,000			-55,080				-908
New Assets - Fixed Assets										
Third Sludge Thickening Machine					110,000		-416,160			-306,160
Thickened Sludge Transfer Pump								23,400		23,400
Annual Difference (above 2% inflation adjustment) from 2003/04 Budget Wastewater	-2,431,308	2,744,094	3,814,130	-161,767	4,588,433	-1,135,340	773,220	1,376,220	894,630	
Cumulative Difference Wastewater	-2,431,308	312,786	4,126,916	3,965,149	8,553,583	7,418,243	8,191,463	9,567,683	10,462,313	

5.4.xxx

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Description	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	Total
Solid Waste										
Renewal & Replacements - Fixed Assets										
Refuse Station Kiosk Equipment Renewal	15,000	15,000								30,000
Metro Weighbridge Replacement		30,000								30,000
Asset Improvements - Fixed Assets										
Refuse Stations Modifications (to accommodate new vehicles)	-44,490									-44,490
Compost Plant Surface Renewal	181,742	130,000								311,742
New Assets - Fixed Assets										
Closed Landfills Aftercare	-1,987	-15,006	-15,006	-15,006	-15,006	-15,006	-15,006	-15,006	-15,006	-122,035
Burwood Landfill Aftercare - Burwood (Stages 1, 2A, 2B)	-716,550	-346,250	112,750	-244,250	143,350	143,350	143,350	143,350	143,350	-477,550
Burwood Landfill Aftercare - Burwood (Stages 2C, 2D, 2E) from Rehabilitation Fund	45,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	1,205,000
Burwood Landfill - Final Capping (2C, 2d, 2E)	1,213,000	1,000,000	1,000,000	182,000						3,395,000
Kerbside Recycling (Bins for population growth - note 10%)	50,822	35,822	15,822	5,822	5,822	5,822	5,822	5,822	6,230	137,806
New Initiatives (eg MRF)	-255,000	-255,000	-255,000	-255,000	-255,000	-255,000	-255,000	-255,000	-255,000	-2,295,000
Putrescible Processing Plant	-2,651,370	2,613,000	3,123,000							3,084,630
Burwood Landfill - New Road - Realignment.	350,000									350,000
Refuse Station Card Reader	10,000								26,000	36,000
Annual Difference (above 2% inflation adjustment) from 2003/04 Budget Wastewater	-1,803,833	3,352,566	4,126,566	-181,434	24,166	24,166	24,166	24,166	50,574	
Cumulative Difference Wastewater	-1,803,833	1,548,733	5,675,299	5,493,865	5,518,031	5,542,197	5,566,363	5,590,529	5,641,103	
Annual Difference (above 2% inflation adjustment) from 2003/04 Budget City Water & Waste	-4,445,220	6,581,640	8,236,476	-220,801	5,167,399	-1,111,174	1,001,386	1,400,386	945,204	
Cumulative Difference City Water & Waste	-4,445,220	2,136,420	10,372,896	10,152,096	15,319,495	14,208,321	15,209,707	16,610,093	17,555,297	

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

SCHEDULE OF CAPITAL 10-YEAR LINES THAT INCLUDE AN ITEM 0.5M OR GREATER

The purpose of this table is to provide an overview of the major capital items included in the Unit's 10-year budget. It also provides an explanation of the reason the 10-year budget roller coasts somewhat from year to year to year and will therefore be a useful tool if corporate capital smoothing is required.

Description (000)	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Water Supply										
Replacement Mains	1.272	1.454	1.454	1.454	1.818	1.818	1.818	2.181	2.181	2.181
Replacement Submains	0.692	0.706	0.706	0.706	0.470	0.470	0.470	0.470	0.235	0.235
Cashmere Reservoir Replacement		0.525	0.545							
New Mains Programme				0.740			0.638	0.638		
New Pump Station Northern Area					0.714	0.714			0.714	0.714
New Connections, Mains, Submains not yet allocated	0.905	0.717	0.701	0.686	0.665	0.568	0.553	0.539	0.523	0.523
Wastewater										
Sewer Renewal - City Wide	1.000	1.000	1.000	1.000	1.000	1.000	1.800	1.800	1.800	1.800
Lifelines, Brickbarrel Renewals			0.542	1.102	1.102					
Pre-aeration Tank Covers									0.612	
Treatment Works Equipment various			0.547	0.631		1.720	1.268	0.923	1.380	
Allen Engine Replacement								1.700		1.700
National Engine Replacement			0.649	0.649						
Belt Press Replacement										0.770
P/stn 11 Pressure Main Upgrading	3.025									
P/stn 11 2nd Pressure Main									1.180	3.150
P/stn 11 Major Upgrade	0.500	2.700	1.800							
Fisher Ave to P/stn 20 Trunk		0.500								
Northern Relief						0.816				
Grassmere Storage								1.500		
Maidstone Storage								0.850		
Wigram Augmentation									0.675	
WI Blenheim Road At Mandeville	0.600									
WI Stage 1 - Bass to Fitzgerald		0.550	3.146	2.400						
WI Stage 2 - Moorhouse to St David				0.970	3.146	1.250				

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

Description (000)	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
WI Stage 3 - St David to Hagley Park						1.030	1.565			
WI Stage 4 - Hagley Park to Dalgety							1.450			
Fisher Ave to Summerfield St									1.230	
Belfast Station and Pressure main	1.000	3.650								
CWTP Expansion	1.300									
CWTP Pond Modifications - (Green Edge)					3.060	3.060	3.060			
Header Manifold - Modifications		0.510								
Motor Distribution Centre (Above Ground)						0.607				
Worsleys Sewage Scheme				0.750	0.575					
New Mains Programme						0.350	0.600	0.450	0.600	0.450
5th & 6th Digester	0.300	3.000	2.800							
Ocean Pipeline consent and investigations	0.741	0.408	0.308							
Ocean Pipeline			20.000	25.000	5.000					
Solid Waste										
Refuse Stations Modifications to accommodate new vehicles	3.557									
Burwood landfill - Final Capping (2C, 2D, 2E)	1.213	1.000	1.000							
Start up In vessel Compost Plant	0.300	3.123	3.123							
Total of Items Greater than 0.5m	16.405	19.843	38.321	36.088	17.550	13.403	13.222	11.051	11.130	11.523
Variations Year to Year		3.438	18.478	-2.233	-18.538	-4.147	-0.181	-2.171	0.079	0.393
Total City Water & Waste Budget	21.741	24.977	43.460	40.074	21.614	17.780	17.619	16.098	15.148	16.421
Variations Year to Year		3.236	18.483	-3.386	-18.460	-3.834	-0.161	-1.521	-0.950	1.273

5.4.1

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	BUSINESS UNIT SUMMARY

NET COST SUMMARY	2003/2004 BUDGET	2004/2005 BUDGET
	\$	\$
WATER SUPPLY		
OPERATIONS REVENUE	(1,064,978)	(1,192,716)
INFORMATION AND ADVICE	705,185	792,402
PLANNING	1,074,184	1,088,991
SUPPLY OF WATER	11,480,351	12,585,132
CAPITAL WORKS REVENUE	(1,361,250)	(1,636,000)
	-----	-----
	10,833,492	11,637,809
WASTEWATER		
OPERATIONS REVENUE	(2,229,610)	(2,961,808)
INFORMATION AND ADVICE	178,883	236,831
PLANNING	995,141	945,271
COLLECTION	14,454,308	13,854,074
TREATMENT & DISPOSAL	8,146,349	8,870,675
LABORATORY	25,000	25,000
CAPITAL WORKS REVENUE	(1,258,000)	(1,470,000)
	-----	-----
	20,312,071	19,500,043
SOLID WASTE		
INFORMATION AND ADVICE	219,817	204,113
PLANNING	178,404	157,793
RECYCLING	2,919,745	3,846,764
RESIDUE DISPOSAL	7,130,067	5,289,944
WASTE MINIMISATION	(2,949,793)	(1,891,778)
KATE VALLEY EQUILISATION FEE REVENUE	(7,306,326)	(6,623,812)
	-----	-----
	191,914	983,025
TOTAL NET COST	-----	-----
	31,337,478	32,120,877
COST OF CAPITAL EMPLOYED	-----	-----
	35,807,085	42,862,976
CAPITAL OUTPUTS		
INFRASTRUCTURAL ASSETS	20,675,006	15,448,109
FIXED ASSETS	5,844,980	6,292,994
	-----	-----
	26,519,987	21,741,103
	=====	=====

5.4.2

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	BUSINESS UNIT SUMMARY

OUTPUT CLASS EXPENDITURE	2003/2004 BUDGET	2004/2005 BUDGET
	\$	\$
WATER SUPPLY		
OPERATIONS REVENUE	605,022	742,284
INFORMATION AND ADVICE	705,185	792,402
PLANNING	1,074,184	1,088,991
SUPPLY OF WATER	11,608,351	12,700,132
CAPITAL WORKS REVENUE	0	0
	-----	-----
	13,992,742	15,323,809
WASTEWATER		
OPERATIONS REVENUE	290,390	306,692
INFORMATION AND ADVICE	198,883	256,831
PLANNING	995,141	945,271
COLLECTION	14,501,308	13,887,074
TREATMENT & DISPOSAL	8,367,349	9,153,675
LABORATORY	157,448	161,243
CAPITAL WORKS REVENUE	0	0
	-----	-----
	24,510,519	24,710,786
SOLID WASTE		
INFORMATION AND ADVICE	219,817	204,113
PLANNING	178,404	157,793
RECYCLING	3,438,845	4,399,414
RESIDUE DISPOSAL	16,753,862	18,441,743
WASTE MINIMISATION	2,839,311	3,869,986
KATE VALLEY EQUILISATION FEE REVENUE	0	1,758
	-----	-----
	23,430,239	27,074,808
TOTAL COST	-----	-----
	61,933,501	67,109,403
	=====	=====

5.4.3

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	BUSINESS UNIT SUMMARY

OUTPUT CLASS REVENUE	2003/2004 BUDGET	2004/2005 BUDGET
WATER SUPPLY	\$	\$
OPERATIONS REVENUE	1,670,000	1,935,000
INFORMATION AND ADVICE PLANNING	0	0
SUPPLY OF WATER	128,000	115,000
CAPITAL WORKS REVENUE	1,361,250	1,636,000
	-----	-----
	3,159,250	3,686,000
WASTEWATER		
OPERATIONS REVENUE	2,520,000	3,268,500
INFORMATION AND ADVICE PLANNING	20,000	20,000
COLLECTION	0	0
TREATMENT & DISPOSAL	47,000	33,000
LABORATORY	221,000	283,000
CAPITAL WORKS REVENUE	132,448	136,243
	1,258,000	1,470,000
	-----	-----
	4,198,448	5,210,743
SOLID WASTE		
INFORMATION AND ADVICE PLANNING	0	0
RECYCLING	0	0
RESIDUE DISPOSAL	519,100	552,650
WASTE MINIMISATION	9,623,795	13,151,799
KATE VALLEY EQUILISATION FEE REVENUE	5,789,104	5,761,764
	7,306,326	6,625,570
	-----	-----
	23,238,325	26,091,783
	-----	-----
TOTAL REVENUE	30,596,023	34,988,526
	=====	=====
NET COST	31,337,478	32,120,877
	=====	=====

5.4.4

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	OUTPUT SUMMARY

	2003/2004 BUDGET	2004/2005 BUDGET
	\$	\$
NET COST SUMMARY - WATER SUPPLY		
OPERATIONS REVENUE - WATER SUPPLY		
Water Billing And Monitoring	-1,064,978	-1,192,716
	-----	-----
	-1,064,978	-1,192,716
INFORMATION AND ADVICE - WATER SUPPLY		
Information And Advice	705,185	792,402
	-----	-----
	705,185	792,402
PLANNING - WATER SUPPLY		
Planning	1,074,184	1,088,991
	-----	-----
	1,074,184	1,088,991
SUPPLY OF WATER - WATER SUPPLY		
Headworks	4,691,449	5,103,003
Reticulation	6,788,902	7,482,128
	-----	-----
	11,480,351	12,585,132
CAPITAL WORKS REVENUE - WATER SUPPLY		
Capital Works Revenue	-1,361,250	-1,636,000
	-----	-----
	-1,361,250	-1,636,000
NET COST	-----	-----
	10,833,492	11,637,809
	=====	=====

5.4.5

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	OUTPUT SUMMARY

	2003/2004 BUDGET	2004/2005 BUDGET
	\$	\$
OUTPUT CLASS EXPENDITURE - WATER SUPPLY		
OPERATIONS REVENUE - WATER SUPPLY		
Water Billing And Monitoring	605,022	742,284
	-----	-----
	605,022	742,284
INFORMATION AND ADVICE - WATER SUPPLY		
Information And Advice	705,185	792,402
	-----	-----
	705,185	792,402
PLANNING - WATER SUPPLY		
Planning	1,074,184	1,088,991
	-----	-----
	1,074,184	1,088,991
SUPPLY OF WATER - WATER SUPPLY		
Headworks	4,691,449	5,103,003
Reticulation	6,916,902	7,597,128
	-----	-----
	11,608,351	12,700,132
CAPITAL WORKS REVENUE - WATER SUPPLY		
Capital Works Revenue		
	-----	-----
	0	0
TOTAL EXPENDITURE - WATER SUPPLY	-----	-----
	13,992,742	15,323,809
	-----	-----

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	OUTPUT SUMMARY

	2003/2004 BUDGET	2004/2005 BUDGET
	\$	\$
OUTPUT CLASS RECOVERIES AND REVENUES - WATER SUPPLY		
OPERATIONS REVENUE - WATER SUPPLY		
Water Billing And Monitoring	1,670,000	1,935,000
	-----	-----
	1,670,000	1,935,000
INFORMATION AND ADVICE - WATER SUPPLY		
Information And Advice	0	0
	-----	-----
	0	0
PLANNING - WATER SUPPLY		
Planning		
	-----	-----
	0	0
SUPPLY OF WATER - WATER SUPPLY		
Headworks	0	0
Reticulation	128,000	115,000
	-----	-----
	128,000	115,000
CAPITAL WORKS REVENUE - WATER SUPPLY		
Capital Works Revenue	1,361,250	1,636,000
	-----	-----
	1,361,250	1,636,000
TOTAL RECOVERIES AND REVENUE - WATER SUPPLY	-----	-----
	3,159,250	3,686,000
TOTAL NET EXPENDITURE - WATER SUPPLY	-----	-----
	10,833,492	11,637,809
	=====	=====

5.4.7

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10

RENEWAL AND REPLACEMENT

Infrastructural Assets										
Water Supply										
Reticulation										
Project Management Mains - City Solutions, Geodata & CW&W	153,055	182,000	182,000	182,000	226,000	226,000	226,000	272,000	272,000	272,000
Replacement Mains	1,272,000	1,454,000	1,454,000	1,454,000	1,818,000	1,818,000	1,818,000	2,181,000	2,181,000	2,181,000
Project Management Sub-Mains - City Solutions, Geodata & CW&W	62,648	60,000	60,000	60,000	41,000	41,000	41,000	41,000	20,000	20,000
Replacement Submains	692,000	706,000	706,000	706,000	470,000	470,000	470,000	470,000	235,000	235,000
Replacement Meters	154,000	154,000	154,000	154,000	154,000	154,000	154,000	154,000	154,000	154,000
Sub Total	2,333,703	2,556,000	2,556,000	2,556,000	2,709,000	2,709,000	2,709,000	3,118,000	2,862,000	2,862,000
Note: above estimates include engineering & Geodata Services										
Headworks										
Replacement Wells	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000
Pump Replacements	70,000	173,400	137,700	173,400	137,700	173,400	137,700	173,400	137,700	173,400
Fuel Tanks	18,000	18,000	18,000	18,000	18,000					
Fitzgerald Pumping Station	170,000									
Building Replacements					153,000	153,000			153,000	153,000
Pipework Replacements							102,000	102,000		
Primary Switchboard Replacements	55,000	35,700	35,700	35,700	35,700	35,700	35,700	35,700	35,700	35,700
Secondary Switchboard	10,200		10,200		10,200		10,200		10,200	
Starters and variable speed	96,900	51,000	51,000	51,000	51,000	51,000	51,000	51,000	51,000	51,000
Metering (Flow Meters)	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400
Diesel Replacements	132,600			132,600			132,000			132,000
Westmoreland 2 Reservoir Replacement	75,400	200,000								
Cashmere Reservoir Replacement		525,300	545,700							
Huntsbury Joint Replacement				102,000						
Control & Indication	178,500	178,500	178,500	178,500	178,500	122,400	81,600	122,400	81,600	280,000
Other Renewals / Replacements				51,000	51,000	51,000	102,000	102,000	102,000	102,000
Geodata Services	1,080									
Project Management - CW&W	43,936	62,000	64,000	52,000	45,000	45,000	48,000	45,000	44,000	73,000
Sub Total	1,076,016	1,468,300	1,265,200	1,018,600	904,500	855,900	924,600	855,900	839,600	1,224,500
TOTAL - WATER SUPPLY	3,409,719	4,024,300	3,821,200	3,574,600	3,613,500	3,564,900	3,633,600	3,973,900	3,701,600	4,086,500

5.4.8

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Wastewater										
Reticulation										
Project Management - CW&W	82,681	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000
Ex City Solutions - Contract Supervision of Subdivisi	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400	20,400
Ex City Solutions - Data Collection Sewer Renewals	23,500	23,500	23,500	23,500	23,500	23,500	23,500	23,500	23,500	23,500
Sewer Renewal - City Wide	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,800,000	1,800,000	1,800,000	1,800,000
Flow Monitoring										
Sewer Grouting Contract										
Lifelines, Brickbarrel Renewals		50,000	542,000	1,102,000	1,102,000					
Pumping										
Project Management	16,206	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200
Pumping Station Wiring & Switchgear Renewal	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000
Pumping Station Upgrades (Pumps & Pipes)	102,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
Treatment										
Project Management	16,206	15,600	15,600	15,600	15,600	15,600	15,600	15,600	15,600	15,600
Channel Control Gates Replacement				78,000				104,000		
D Panel Replacement			236,600							
Estuary Front Stabilisation	56,100					54,100				
North Gallery Rewire										
Sludge Pipe Replacement	5,600		5,600		5,600		5,600		5,600	
Water Pipe Replacement		4,400		4,400			108,100			
Dall Flow Measurement Meters							55,100			
Density Meters (2)									81,600	
Channel Wall Repairs	102,000	102,000								
Pre-aeration Tank Covers									612,000	
Unallocated						90,000	90,000	90,000	90,000	90,000
TOTAL - WASTEWATER	1,479,692	1,498,100	2,125,900	2,526,100	2,449,300	1,485,800	2,400,500	2,335,700	2,930,900	2,231,700
TOTAL INFRASTRUCTURAL ASSETS	4,889,411	5,522,400	5,947,100	6,100,700	6,062,800	5,050,700	6,034,100	6,309,600	6,632,500	6,318,200

5.4.9

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Fixed Assets										
Wastewater										
Pumping										
Pumping Station Control Systems	33,700	33,700	33,700	33,700	33,700	33,700	33,700	33,700	33,700	33,700
Pumping Station Alarm Systems	16,300	16,300	16,300	16,300	16,300	16,300	16,300	16,300	16,300	16,300
Scada System						297,000	297,000	300,000	300,000	300,000
Treatment Works										
Air Conditioner Replacements		13,100			13,200			13,200		13,200
Boundary Fence				10,900						
Portable Pumps	13,100			13,300			13,300			
Workshop Equipment				33,300		10,900				
Filter Bearing	32,100					32,600		63,400		
Channel Covers						21,800				
Electrical Test Equipment		10,900					10,900			
Air Compressor								53,000		
Circuit breaker				55,100				53,000		
Programmable Logic Controllers Replacement							204,000			
National Engine Replacement			649,230	649,230						
Kelly Lewis Pump - Replacement			129,846	132,090			278,827			
Portable Gas Detector Replacement	6,600			6,600			6,600			
Airdryer		6,600			6,600			6,600		6,600
Portable Pumps - Lagoons	13,300					13,300				
Sludge Circ P/P Replacement								104,000	102,000	
Sed Tank Mechanical Equipment		197,900		220,300			220,300		81,600	
Brick Building Repairs		16,200								
Upgrade gas control system								52,000		
"A" Panel & Large Display Screen		32,500								
Raw Sludge Pump Replacement			163,000						204,000	
Belt Press Replacement										770,000
Pre-Aeration Blower Replacement						198,900				
BioSolids Auger			94,000							
FGR Bearings / Overhaul						110,200		110,200		
Clarifiers Scrapers				110,200						
Aeration Contact Tanks						220,320				
Soil Filter Relay					110,200					
Waukesha Gas Compressor						110,200	108,100			

5.4.10

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Gas Compressor H. P.			110,200							
Air-compressor Replacements						54,000				
Circ Pump Replacements						109,200				
Gas Central Monitor						53,000				
U.V. Sterilisation						110,200				
Electrical Upgrades						33,700	34,400		102,000	100,000
Allen Compressor						165,200				
Flow Measurement						66,300			102,000	25,000
Bio-Solids Dewatering Feedpump						19,400	25,500			
Potable Diesel Pump						59,100				
Control Communication Network Upgrade					54,100	52,000				
Security Camera Upgrade					54,100	20,800				
Allen Engine Control System								108,100	208,100	
Allen Engine Replacement								1,700,000		1,700,000
Other Plant Renewals	52,000	52,000	50,000	50,000	50,000	260,100	366,000	470,000	470,000	275,000
Laboratory										
Instrumentation Upgrade	10,000									
ICP (Inductively Coupled Plasma)										180,000
Gas Chromotograph HP5700 &HP5890		41,600	41,600							
Graphite Furnace AA				80,000						
Buchi Distiller									30,000	
Phosphate Digester					12,000					
Ion Chromatograph							40,000			
UV/VIS Spectrometer									25,000	
Kjeldahl Digester						16,000				
Kjeldahl Distiller			45,900					15,000		
Laboratory Testing & Measuring Equipment	35,000	20,400	25,500	25,500	25,500	25,500	25,500	25,500	25,500	25,500
Solid Waste										
Minor Replacements	10,200	10,200	10,200	51,000	51,000	51,000	51,000	51,000	51,000	51,000
Refuse Station Kiosk Equipment Renewal	15,000	15,000								
Metro Weighbridge Replacement		30,000								
Support										
Equipment & Computer Software	60,000	60,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
TOTAL FIXED ASSETS	297,300	556,400	1,444,476	1,562,520	501,700	2,235,720	1,806,427	3,139,800	1,936,400	3,571,300
TOTAL RENEWALS & REPLACEMENTS	5,186,711	6,078,800	7,391,576	7,663,220	6,564,500	7,286,420	7,840,527	9,449,400	8,568,900	9,889,500

5.4.11

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
ASSET IMPROVEMENTS										
Infrastructural Assets										
Water Supply										
Minor Improvements	40,000	40,000	40,000	40,000	40,000					
Control & Indication	30,600	30,600	30,600	30,600	30,600					
Life Lines Mitigating Measure	63,200	51,000	11,200	81,600	51,400					
Noise Control (diesel running)	18,400	18,400	18,400	18,400	18,400					
Energy Efficiency Measures (Reprogrammed 04/05)	100,000	100,000	102,000							
Security	61,200	61,200	61,200	61,200						
Project Management - CW&W	51,026	52,000	52,000	52,000	52,000					
Unallocated						213,000	213,000	213,000	213,000	213,000
TOTAL - WATER SUPPLY	364,426	353,200	315,400	283,800	192,400	213,000	213,000	213,000	213,000	213,000
Wastewater										
Reticulation										
Project Management - CW&W	34,644	62,400	62,400	62,400	62,400	62,400	62,400	62,400	62,400	62,400
Contract Supervision (Ex City Solutions)	5,600	5,600	5,600	5,600	5,600	5,600	5,600	12,500	12,500	12,500
Data Collection (Ex City Solutions)	14,000	13,800	13,800	13,800	13,800	13,800	13,800	13,500	13,500	13,500
No. 11 Pressure Main Upgrading (Reprogrammed 04/05)	3,025,000									
Lifelines - Ferry Road & Pages Road Bridge		116,700								
Fisher Ave to PS20 Trunk	200,000	500,000								
Northern Relief						816,000				
Grassmere storage								1,500,000		
Maidstone Storage & Pumping Main								850,000		
Wigram Augmentation Halswell Pressure Main - Stage 2								260,000	675,000	
WI Blenheim Road At Mandeville	600,000									
WI Stage 1 - Bass to Fitzgerald		550,000	3,146,000	2,400,000						
WI Stage 2 - Moorhouse to St David				970,000	3,146,000	1,250,000				
WI Stage 3 - St David to Hagley Park						1,030,000	1,565,000			
WI Stage 4 - Hagley Park to Dalgety							1,450,000			
Fisher Ave to Summerfield St									1,230,000	
PS 11 2nd Pressure Main									1,180,000	3,150,000
Overflow Screening	100,000									
Unallocated						53,000	53,000	53,000	53,000	53,000

5.4.12

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Pumping										
Project Management - Alloc O/Head - Cost Centre	17,859									
Pumping Station 11 Major Upgrade	500,000	2,700,000	1,800,000							
Pumping Station 21 Upgrade	316,300									
Pumping Station 60 Upgrade									60,000	
Maidstone Pumping Station							125,000	375,000		
Pumping Station 22	100,000									
Treatment Works										
Belfast Station and Pressure Main	1,000,000	3,650,000								
Pump Station B								52,000	52,000	
Project Management - Alloc O/Head - Cost Centre	104,995									
Expansion of Christchurch Wastewater Treatment Plant	1,300,000									
Christchurch Wastewater Treatment Plant - Green Edge			52,000	52,000	3,060,000	3,060,000	3,060,000			
Header Manifold - Modifications		510,000								
Motor Distribution Centre (Above Ground)						607,000				
TOTAL - WASTEWATER	7,318,398	8,108,500	5,079,800	3,503,800	6,287,800	6,897,800	6,334,800	3,178,400	3,338,400	3,291,400
TOTAL INFRASTRUCTURAL	7,682,824	8,461,700	5,395,200	3,787,600	6,480,200	7,110,800	6,547,800	3,391,400	3,551,400	3,504,400

5.4.13

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE									
BUSINESS UNIT:	CITY WATER AND WASTE									
OUTPUT CLASS:	CAPITAL OUTPUTS									
Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Fixed Assets										
Wastewater										
Pumping										
Treatment Works										
Software (Scada)							10,800			
Trickling Filter - Cover Painting			76,000							
Trade Waste										
Laboratory										
Solid Waste										
Refuse Stations Modifications (to accommodate new vehicl	3,556,975									
Compost Plant Surface Renewal	200,000	130,000								
Minor Improvements	20,800	20,800	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000
Support										
Equipment & Computer Software	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
TOTAL FIXED ASSETS	3,802,775	175,800	153,000	77,000	77,000	77,000	87,800	77,000	77,000	77,000
TOTAL ASSET IMPROVEMENTS	11,485,599	8,637,500	5,548,200	3,864,600	6,557,200	7,187,800	6,635,600	3,468,400	3,628,400	3,581,400

5.4.14

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
NEW ASSETS										
Infrastructural Assets										
Water Supply										
Reticulation										
Project Management	15,704									
Submains	21,400	21,400	21,400	21,400	21,400	21,400	21,400	21,400	21,400	21,400
Additional infrastructure required for developments	54,100	54,100	54,100	54,100	54,100	54,100	54,100	54,100	54,100	54,100
New Mains Programme	250,000	250,000	332,500	740,500	128,500	128,500	638,500	638,500	128,500	128,500
Sub Total	341,204	325,500	408,000	816,000	204,000	204,000	714,000	714,000	204,000	204,000
Note: figures include Geodata Services and Project Management										
Headworks										
Standby Diesels		140,000								
Land Purchase for Pump Station			204,000				204,000			
New wells for growth		204,000		204,000			204,000	204,000		
New secondary station (growth)			204,000							
New Pump Station Northern Area					714,000	714,000			714,000	714,000
New reservoirs (growth)			275,400							
Contribution to developer provided headworks								102,000		
Project Management-Design & Supervision	34,209	16,300	55,100	16,300	57,100	57,100	16,300	24,500	57,100	57,100
Unallocated										
Sub Total	34,209	360,300	738,500	220,300	771,100	771,100	424,300	330,500	771,100	771,100
New Assets (Recoverable)										
Project Management	59,434									
New C/Ns (Schedule) - 13mm	612,821	370,300	358,000	344,800	332,000					
Invoiced Connections - over 19mm	102,000	102,000	102,000	102,000	102,000					
Rural Restricted C/ns	5,100	5,100	5,100	5,100	5,100					
Mains	4,100	4,100	4,100	4,100	4,100					
Submains	1,000	1,000	1,000	1,000	1,000					
Geodata Services	42,800	42,800	42,800	42,800	42,800					
New Connection Administration - Geodata	78,000	78,000	78,000	78,000	78,000					
Unallocated		113,200	110,200	108,100	100,000	568,100	552,800	538,600	523,300	523,300
Sub Total	905,255	716,500	701,200	685,900	665,000	568,100	552,800	538,600	523,300	523,300
TOTAL - WATER SUPPLY	1,280,668	1,402,300	1,847,700	1,722,200	1,640,100	1,543,200	1,691,100	1,583,100	1,498,400	1,498,400

5.4.15

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE									
BUSINESS UNIT:	CITY WATER AND WASTE									
OUTPUT CLASS:	CAPITAL OUTPUTS									
Description	2004/2005 Year 1	2005/2006 Year 2	2006/2007 Year 3	2007/2008 Year 4	2008/2009 Year 5	2009/2010 Year 6	2010/2011 Year 7	2011/2012 Year 8	2012/2013 Year 9	2013/2014 Year 10
Wastewater										
Reticulation										
Project Management - CW&W	26,127	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000
Contract Supervision (Ex City Solutions)	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Data Collection (Ex City Solutions)	6,100	6,100	6,100	6,100	6,100	6,100	6,100	6,100	6,100	6,100
Chaney's Rural Industrial Zone			400,000							
Pumping Station 16 Pressure Main Extension Stage 1		150,000								
Pumping Station 16 Pressure Main Extension Stage 2						250,000				
Alpine View Cost Share Buyout					140,000					
Worsleys Sewage Scheme				750,000	575,000					
Mt Pleasant Sewer Extension		350,000								
Reticulation Odour Control	51,000	51,000	51,000	51,000	51,000	51,000	51,000	51,000	51,000	51,000
New Mains Programme						350,000	600,000	450,000	600,000	450,000
Subdivisions Sewer Cost Share Contributions	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Pumping										
Worsleys' Sewage Scheme					175,000					
Chaney's Sewage Scheme			150,000							
New Stations for Growth						150,000		150,000		150,000
Treatment Works										
Project Management - Alloc O/Head - Cost Centre	110,297									
5th & 6th Digester (Reprogrammed 04/05)	300,000	3,000,000	2,800,000							
Minor Plant	30,600	30,600	54,100	54,100	54,100	54,100	54,100	54,100	54,100	54,100
Ocean Pipeline consent and investigations	741,082	408,000	308,000							
Ocean Pipeline			20,000,000	25,000,000	5,000,000					
Oxidation Ponds Toe Drain Pump Station	200,000									
TOTAL - WASTEWATER	1,595,206	4,147,700	23,921,200	26,013,200	6,153,200	1,013,200	863,200	863,200	863,200	863,200
TOTAL INFRASTRUCTURAL ASSETS										
	2,875,874	5,550,000	25,768,900	27,735,400	7,793,300	2,556,400	2,554,300	2,446,300	2,361,600	2,361,600

5.4.16

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE									
BUSINESS UNIT:	CITY WATER AND WASTE									
OUTPUT CLASS:	CAPITAL OUTPUTS									
Description	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Fixed Assets										
Water Supply										
Water Supply - Network Model (Project Management)				40,800				40,800		
Wastewater										
Pumping										
Treatment Works										
Waukesha Cylinder Head						17,000				
Emergency Pump						21,200				
Pond Data Collection						63,900				
Crane (Portable)						42,500				
Third Sludge Thickening Machine					110,000					
Thickened Sludge Transfer Pump								105,000		
Unallocated			30,600	30,600	30,600	30,600	30,600	30,600	30,600	30,600
Trade Waste										
Flow Recording Data Logger	15,900					15,900				
Trade Waste Samplers			30,600							
Laboratory										
Solid Waste										
New Canterbury Regional Landfill										
Closed Landfills Aftercare	178,019	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
Burwood Landfill Aftercare - Burwood (Stages 1, 2A, 2B)		202,000	202,000	202,000	202,000	202,000	202,000	202,000	202,000	202,000
Burwood Landfill Aftercare - Burwood (Stages 2C, 2I)	45,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000
Burwood Landfill - Final Capping (2C, 2d, 2E)	1,213,000	1,000,000	1,000,000	182,000						
Kerbside Recycling (Bins for population growth - note)	65,000	50,000	30,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Putrescible Processing Plant	300,000	3,123,000	3,123,000							
Burwood Landfill - New Road - Realignment.	350,000									
Refuse Station Card Reader	10,000									
Support										
Equipment & Computer Software	16,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
TOTAL FIXED ASSETS	2,192,919	4,711,000	4,752,200	811,400	698,600	749,100	588,600	734,400	588,600	588,600
TOTAL NEW ASSETS	5,068,793	10,261,000	30,521,100	28,546,800	8,491,900	3,305,500	3,142,900	3,180,700	2,950,200	2,950,200

5.4.17

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
SUMMARY										
RENEWALS & REPLACEMENTS	5,186,711	6,078,800	7,391,576	7,663,220	6,564,500	7,286,420	7,840,527	9,449,400	8,568,900	9,889,500
ASSET IMPROVEMENTS	11,485,599	8,637,500	5,548,200	3,864,600	6,557,200	7,187,800	6,635,600	3,468,400	3,628,400	3,581,400
NEW ASSETS	5,068,793	10,261,000	30,521,100	28,546,800	8,491,900	3,305,500	3,142,900	3,180,700	2,950,200	2,950,200
TOTAL CITY WATER & WASTE	21,741,103	24,977,300	43,460,876	40,074,620	21,613,600	17,779,720	17,619,027	16,098,500	15,147,500	16,421,100
Annual Plan 2003/2004	26,519,987	25,671,402	17,836,270	34,922,750	39,954,390	16,858,298	18,929,110	17,191,330	15,457,996	13,804,676
Annual Plan 2003/2004 Plus 2%	26,184,830	18,192,996	35,621,205	40,753,478	17,195,464	19,307,693	17,535,157	15,767,156	14,080,770	
<i>Variance</i>	-4,443,728	6,784,304	7,839,671	-678,858	4,418,136	-1,527,973	83,870	331,344	1,066,730	
<i>Cumulative Variance</i>	-4,443,728	2,340,577	10,180,247	9,501,389	13,919,525	12,391,552	12,475,422	12,806,765	13,873,496	
SUMMARY - INFRASTRUCTURAL ASSETS / FIXED ASSETS										
Water Supply										
RENEWALS & REPLACEMENTS	3,409,719	4,024,300	3,821,200	3,574,600	3,613,500	3,564,900	3,633,600	3,973,900	3,701,600	4,086,500
ASSET IMPROVEMENTS	364,426	353,200	315,400	283,800	192,400	213,000	213,000	213,000	213,000	213,000
NEW ASSETS	1,280,668	1,402,300	1,847,700	1,722,200	1,640,100	1,543,200	1,691,100	1,583,100	1,498,400	1,498,400
Total - Water Supply	5,054,812	5,779,800	5,984,300	5,580,600	5,446,000	5,321,100	5,537,700	5,770,000	5,413,000	5,797,900
Wastewater										
RENEWALS & REPLACEMENTS	1,479,692	1,498,100	2,125,900	2,526,100	2,449,300	1,485,800	2,400,500	2,335,700	2,930,900	2,231,700
ASSET IMPROVEMENTS	7,318,398	8,108,500	5,079,800	3,503,800	6,287,800	6,897,800	6,334,800	3,178,400	3,338,400	3,291,400
NEW ASSETS	1,595,206	4,147,700	23,921,200	26,013,200	6,153,200	1,013,200	863,200	863,200	863,200	863,200
Total - Wastewater	10,393,297	13,754,300	31,126,900	32,043,100	14,890,300	9,396,800	9,598,500	6,377,300	7,132,500	6,386,300
TOTAL INFRASTRUCTURAL ASSETS	15,448,109	19,534,100	37,111,200	37,623,700	20,336,300	14,717,900	15,136,200	12,147,300	12,545,500	12,184,200
TOTAL FIXED ASSETS	6,292,994	5,443,200	6,349,676	2,450,920	1,277,300	3,061,820	2,482,827	3,951,200	2,602,000	4,236,900
TOTAL CITY WATER & WASTE	21,741,103	24,977,300	43,460,876	40,074,620	21,613,600	17,779,720	17,619,027	16,098,500	15,147,500	16,421,100

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2003/2004 Present Charge (Inc. GST)	2003/2004 Ext Revenue From Present Charge (Excl GST)	2004/2005 Proposed Charge (Incl GST)	2004/2005 Projected Ext Revenue From Proposed Charge (Excl GST)	2004/2005 Projected Ext Revenue as a percentage of Total Cost	Notes
WATER SUPPLY						
Water Applications						
Water Supply Connection Fees & charges - standard domestic	\$425	\$577,000	\$425	\$745,000	100.00%	
Commercial & Industrial Connection - Administration & Engineering fees	\$67.50 per conn	\$10,000	\$67.50 per conn	\$0	100.00%	
Supply Of Water						
Rural Restricted Water Supply - see note (1)	\$65 per Unit/annum	\$6,000	\$65 per Unit/annum	\$0	100.00%	
Water Consumption Charges (Charges as an excess targeted rate under section 19 of the Local Government (Rating) Act 2002 to other than private residential consumers.)	Pre-paid allowance based on one cubic metre for every 27c of water rate levied. With a minimum of 255 Cu/M		Pre-paid allowance based on one cubic metre for every 38c of water rate levied. With a minimum of 255 Cu/M		100.00%	
	Water used above allowance charged at 33c per Cu/M	\$1,422,000	Water used above allowance charged at 38c per Cu/M	\$1,713,000		
	Consumers not paying a water rate 33c /Cu/M Flat		Consumers not paying a water rate 38c /Cu/M Flat			
Supply of Bulk Water ex Fire Hydrant	\$70/hr	\$5,000	\$70/hr	\$0	100.00%	
Non Metered Fire Fighting Connection (Charged as a uniform targeted rate - Water Supply Fire Connection)						
RECOVERABLE EXPENDITURE						
New Sub-Mains/Connections - Cost Share		\$43,000		\$41,000		
Damage Recoveries		\$83,000		\$50,000		
Miscellaneous		\$5,000		\$5,000		
Headworks Capacity Upgrade Fee	\$562.50 Per new lot or additional dwelling unit	\$627,000	\$562.50 Per new lot or additional dwelling unit	\$750,000		
Landsdowne Scheme	\$0.60 per Cu/M	\$25,000	\$0.60 per Cu/M	\$25,000	100.00%	
Commercial/Industrial Connections		\$104,250		\$100,000		
TOTAL WATER SUPPLY - See note (2)		\$2,907,250		\$3,429,000		

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2003/2004 Present Charge (Inc. GST)	2003/2004 Ext Revenue From Present Charge (Excl GST)	2004/2005 Proposed Charge (Incl GST)	2004/2005 Projected Ext Revenue From Proposed Charge (Excl GST)	2004/2005 Projected Ext Revenue as a percentage of Total Cost	Notes
WASTEWATER						
Trade Wastes						
Annual Charges - for flow rate up to 5m ³ / day	Varies from \$150.88 p.a. to \$455.55 p.a.		Varies from \$177.55 p.a. to \$542.00 p.a.			
Quarterly Charges - for flow rate over 5m ³ / day		\$2,300,000		\$3,000,000		
Volume	\$0.40399/m ³		\$0.42255/m ³			
Suspended Solids	\$0.28384/kg		\$0.31838/kg		100.00%	
BOD	\$0.21082/kg		\$0.22444/kg			
Tankered Waste Fee	\$18.00/m ³	\$70,000	\$18.00/m ³	\$85,000	100.00%	
Application Fees	actual costs	\$5,000	actual costs	\$500	100.00%	
Trade Waste Discharge Analysis	actual costs	\$10,000	actual costs	\$1,000	100.00%	
Other Charges						
Sale of Energy	Varies according to tariff	\$150,000	Varies according to tariff	\$185,000	100.00%	
Miscellaneous Sales (Scrap etc)	varies	\$6,000	varies	\$6,000	N/A	
Sewer Lateral Recoveries		\$10,000		\$25,000	100.00%	
Acceptance of Airport Sewage		\$100,000		\$140,000	100.00%	
Acceptance of Selwyn District Sewage		\$105,000		\$127,000		
CWTP Capacity Upgrade Fee	\$607.50 per new lot or new additional dwelling unit	\$738,000	\$607.50 per new lot or new additional dwelling unit	\$900,000	100.00%	
Cost Sharing Contributions		\$20,000		\$20,000	100.00%	
Reticulation Capacity Upgrade Fee	\$477.00 per new lot or new additional dwelling unit	\$500,000	\$477.00 per new lot or new additional dwelling unit	\$550,000	100.00%	
Laboratory Services	Varies	\$43,581	Varies	\$44,830	100.00%	
Hire of Equipment		\$0		\$0	100.00%	
Stormwater Inflow Recoveries		\$2,000		\$2,000		
Geodata - Sale of Plans	\$10.00/ A4 sheet	\$20,000	\$10.00/ A4 sheet	\$20,000	100.00%	
TOTAL WASTEWATER		\$4,079,581		\$5,106,330		

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2003/2004 Present Charge (Inc. GST)	2003/2004 Ext Revenue From Present Charge (Excl GST)	2004/2005 Proposed Charge (Incl GST)	2004/2005 Projected Ext Revenue From Proposed Charge (Excl GST)	2004/2005 Projected Ext Revenue as a percentage of Total Cost	Notes
SOLID WASTE						
Refuse Bag & Other Charges						
Plastic Bags	\$1.00	\$665,000	\$1.00	\$2,250,000	100.00%	
Trailer Nets and Other	varies	\$3,000	varies	\$3,000		
Refuse Stations						
General Refuse - See note (3)						
All vehicles(both private & commercial) charged by weight at the same rate and classified as "General Refuse"						
General Refuse (Refuse Stations and Landfill)	\$97.00/tonne	\$9,668,932	\$99.25/tonne	\$10,602,398	100.00%	
Private vehicles -Rubble (charged by weight)	\$35.80/tonne	\$159,109	\$35.80/tonne	\$222,753	100.00%	
All vehicles minimum charge	\$5.00/load		\$5.00/load			
Landfill Direct						
Hardfill	\$35.80/tonne	\$413,684	\$35.80/tonne	\$95,465	100.00%	
General Refuse	\$97.00/tonne	\$1,272,228	\$99.25/tonne	\$1,196,773		
Special and Treated Hazardous Waste (01/02 included in General Waste) s	\$119.50/tonne	\$334,446	\$121.75/tonne	\$404,993		
Large loads direct to Burwood	\$66.30/tonne	\$2,888,907	\$66.30/tonne	\$3,437,513		
All vehicles minimum charge	\$5.00/load		\$5.00/load			
Regional (Waimakariri DC)	\$33.90/tonne	\$391,726	\$33.90/tonne	\$361,560	100.00%	
Regional (Ashburton DC)	\$33.90/tonne	\$195,863	\$33.90/tonne	\$169,481	100.00%	
Regional (Banks Peninsula DC)	\$33.90/tonne	\$15,066	\$33.90/tonne	\$35,716		
Regional (Hurunui DC)	\$16.88/tonne	\$54,221	\$16.88/tonne	\$33,833		
Regional (Selwyn DC)	\$33.90/tonne	\$45,199	\$33.90/tonne	\$302,864		
Clean Fills						
Waste Minimisation Levy - Clean Fills	\$10.10/tonne	\$680,000	\$10.10/tonne	\$1,000,000	100.00%	

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2003/2004 Present Charge (Inc. GST)	2003/2004 Ext Revenue From Present Charge (Excl GST)	2004/2005 Proposed Charge (Incl GST)	2004/2005 Projected Ext Revenue From Proposed Charge (Excl GST)	2004/2005 Projected Ext Revenue as a percentage of Total Cost	Notes
Green Waste - See note (4)						
Organic Waste	\$58.20/tonne		\$49.60/tonne			
Minimum Charge - cars/station wagons	\$3.00/load		\$3.00/load			
- all other vehicles (including trailers)	\$4.00/load		\$4.00/load			
Mixed Load green / refuse (more than 50% green)	\$79/tonne	\$1,730,241	\$76/tonne	\$1,351,034		
Mixed Load green / rubble (more than 50% green)	\$62.50/tonne		\$60.00/tonne			
Minimum charge (mixed load)	\$5.00/load		\$5.00/load			
Compost Sales		\$10,000		\$0		
Recycling						
Commercial Waste Reduction		\$0		\$0		
Domestic Composting		\$500		\$100		
Kerbside Recycling Crate Sales	\$8.50/crate	\$100	\$8.50/crate	\$100	100.00%	
RMF % return on Kerbside Recyclables		\$238,500		\$297,187		
TOTAL SOLID WASTE		\$18,766,722		\$21,764,770		
TOTAL CITY WATER AND WASTE		\$25,753,553		\$30,300,100		

Note (1) A unit is an amount of water flowing through a restrictor that allows a flow of up to 1 cubic metre per day.

Note (2) Excludes internal revenue from water sales to Parks & Waterways and City Streets units.

Note (3) The proposed general refuse charge is now set at the level expected when Kate Valley opens.

Note (4) Greenwaste is set at 60% of the full refuse charge