

Case Study

Dec 2009



Savings on water costs by reducing consumption by 10 per cent per annum

Prices are based on 2009/2010 water and volumetric sewer charges in the Perth metropolitan area

Total Water Use	20,000 kL	Total Water Use	20,000 kL
No Savings	0 kL	10 % Saving	2000 kL
Water Consumption	20,000 kL	Water Consumption	18,000 kL
Cost of Water - 2009/2010 prices	600 kL @ \$1.171 19,400 kL @ \$1.22	Cost of Water - 2008/2009 prices	600 kL @ \$1.171 17,400 kL @ \$1.22
	\$24,370.60		\$21,930.60
Savings in Water Consumption		\$2,440.00	

Volumetric Sewer – Discharge Factor of 90%	20,000 kL x 90% = 18,000 kL discharge less 200 kL annual allowance = 17,800 kL	Volumetric Sewer – Discharge Factor of 90%	18,000 kL x 90% = 16,200 kL discharge less 200 kL annual allowance = 16,000 kL
Cost of Volumetric Sewer	17,800 kL x \$2.328	Cost of Volumetric Sewer	16,000 kL x \$2.328
	\$41,438.40		\$37,248.00
Savings in Volumetric Sewer		\$4,190.40	

Cost of Heating Water*	\$7.05/kL	Cost of Heating Water*	\$7.05/kL
Based on 20% of water used being heated	4,000 kL @ \$7.05	Based on 20% of water used being heated	3,600 kL @ \$7.05
	\$28,200.00		\$25,380.00
Savings in Heating Water		\$2,820.00	

Total Savings made by reducing water consumption by 10% \$9,450.40

*Cost of heating water based on calculations provided by The Sustainable Energy Development Office of WA. Energy source used – Electricity. Cost of heating 200 litres of water per day - \$550 per annum (approx). For more information see http://www.sedo.energy.wa.gov.au/pages/energy_smart_business.asp