

2016/17 Residential Water and Wastewater Price Benchmarking Report

Large Queensland Service Providers



AECgroup

Outcomes Summary

AEC Group Pty Ltd (AEC) is an industry leader in the water and wastewater sector, having provided advice to a large number of service providers regarding their financial and pricing strategies over the past two decades. If you require assistance regarding cost recovery and/or charging structures, please don't hesitate to contact Gavin O'Donovan, Director – Finance, on (07) 3831 0577 or via gavin.odonovan@aecgrouppltd.com.

Water Pricing

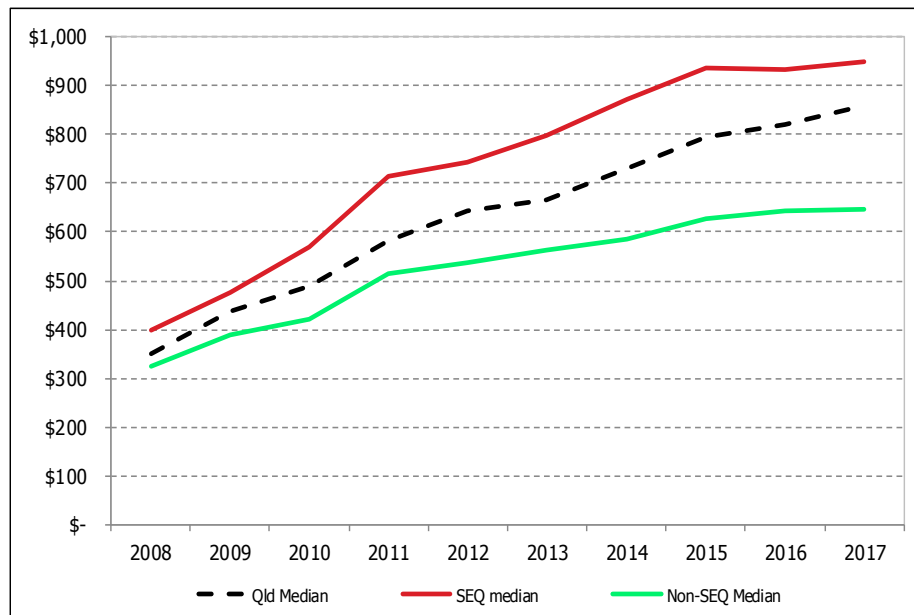
The Queensland industry median water charge for residential customers serviced by large local government utilities in 2016/17 was calculated as:

- \$860.46 for a household consuming 200kL per annum (an increase of 4.8% on the prior year median of (\$821.03); and
- \$1,499.96 for a household consuming 400kL per annum (an increase of 5.4% on the prior year median of (\$1,423.33).

The South-East Queensland (SEQ) median charge increased by 1.9% at 200kL consumption and 2.5% at 400kL consumption, while the non-SEQ median charge increased by 0.8% at 200kL consumption and by 3.4% at 400kL consumption.

The following graph shows that the SEQ median charge at 200kL consumption has historically increased at a greater rate than the non-SEQ median charge, to the extent that the gap between the two is now \$303, up from just \$74 in 2007/08. This gap is not expected to widen much further in the future as most SEQ Councils have arrived at the destination price for bulk water.

Median Residential Water Bill over Time for a Property Consuming 200kL, 2007/08-2015/16



Source: AEC

Looking forward:

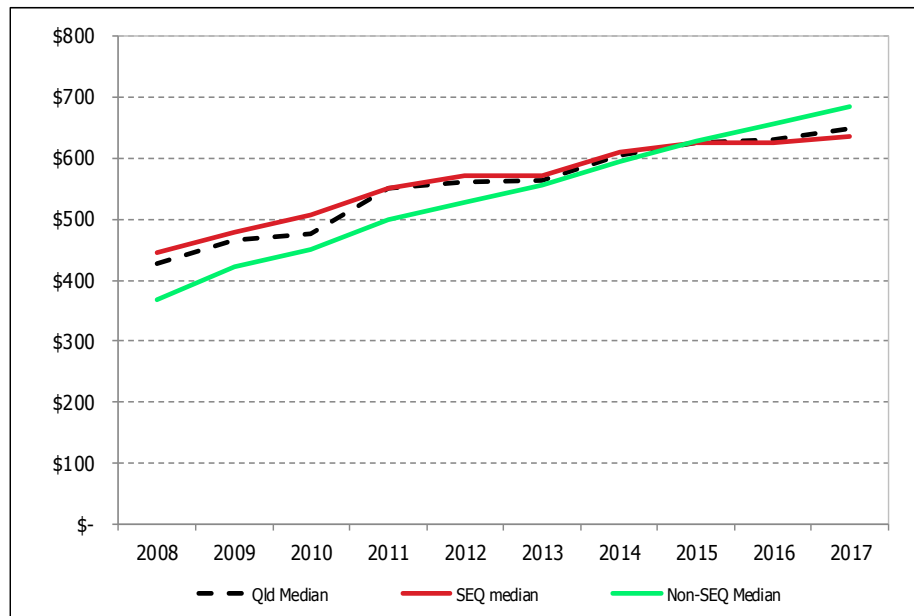
- Water price increases should continue to moderate in SEQ.
- Water price increases outside of SEQ should increase at a greater rate than in SEQ as a result of some bulk water price increases being proposed for selected service areas.

Wastewater Pricing

The Queensland industry median wastewater charge for residential customers serviced by large local government utilities in 2016/17 was calculated as \$651.05, an increase of 3.4% on the prior year median of \$629.67. The SEQ median charge increased by 1.4%, while the non-SEQ median charge increased by 4.4%.

The following graph shows that annual increases in charges outside of SEQ have generally been greater than those in SEQ, resulting in the non-SEQ median overtaking the SEQ median in 2014/15 and being presently \$48 higher than the SEQ median.

Median Residential Wastewater Bill over Time, 2008/09-2016/17



Source: AEC

Looking forward, wastewater price increases are anticipated to continue to be relatively higher in non-SEQ regions, with costs spread over a smaller customer base and enhanced cost recovery levels being achieved.

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1. Water Pricing Levels

The following table provides detailed information on the prices charged for a water service by selected large service providers in Queensland on a residential property.

Water Price Benchmarking for Large Service Providers in Queensland, 2016/17

Provider & Location	Base	Consumption	Discount	Notes
SOUTH-EAST QUEENSLAND (SEQ) WATER GRID				
QLD Urban Utilities				
Brisbane	\$192.48	State Bulk = \$2.748/kL <300kL = \$0.768184/kL >=300kL = \$1.453640/kL	0%	<ul style="list-style-type: none"> In each region, the consumption tiers are annual equivalents, with the actual consumption tier applied each quarter calculated on a litres per day equivalent (i.e. dividing the relevant tier threshold by 365 days and then multiplying by the actual number of days between meter reads)
Ipswich	\$322.44	State Bulk = \$2.706/kL <300kL = \$0.933640/kL >=300kL = \$1.489096/kL	0%	
Lockyer Valley	\$322.44	State Bulk = \$2.748/kL <300kL = \$0.260001/kL >=300kL = \$1.252731/kL	0%	
Scenic Rim	\$322.44	State Bulk = \$2.748/kL <300kL = \$0.933640/kL >=300kL = \$1.489096/kL	0%	
Somerset	\$322.44	State Bulk = \$2.748/kL <300kL = \$0.271819/kL >=300kL = \$0.626365/kL	0%	
Unitywater				
Moreton Bay	\$308.43	State Bulk = \$2.748/kL 0-300kL = \$0.667/kL >300kL = \$1.333/kL	0%	<ul style="list-style-type: none"> The first-tier threshold is an annual equivalent, with the actual consumption charge levied quarterly on a first-tier threshold of 822 litres per day times the number of days between meter reads
Sunshine Coast, Noosa	\$244.92	State Bulk = \$2.444/kL 0-300kL = \$0.667/kL >300kL = \$1.333/kL	0%	
Gold Coast	\$212.08	State Bulk = \$2.74/kL >0kL = \$1.09/kL	0%	<ul style="list-style-type: none"> Class A+ recycled water is available in the Pimpama Coomera Dual Reticulation Area at \$1.76/kL
Logan	\$299.20	State Bulk = \$2.748/kL >0kL = \$1.0224/kL	0%	
Redland	\$263.60	State Bulk = \$2.361/kL >0kL = \$0.59/kL	0%	
OTHER QUEENSLAND				
Bundaberg				
Potable	\$412.00	0-300kL = \$1.15/kL >300kL = \$1.88/kL	0%	<ul style="list-style-type: none"> The tier thresholds are annual equivalents, with the actual consumption charge levied six-monthly on a first-tier threshold of 150kL per six months
Non-potable	\$330.00	0-300kL = \$0.92/kL >300kL = \$1.50/kL	0%	
Cairns	\$256.08	\$1.15/kL	0%	<ul style="list-style-type: none"> Where recycled water is available, an access charge of \$62.08 is applicable in addition to a consumption charge of \$0.57/kL
Fraser Coast	\$490.00	\$1.73/kL	7.5%	
Gladstone				
Lake Awoonga Scheme	\$471.00	\$1.65/kL	10% (base)	<ul style="list-style-type: none"> Bulk water from the Lake Awoonga Scheme is supplied by the Gladstone Area Water Board (GAWB), which is subject to formal pricing reviews by the Queensland Competition Authority
Miriam Vale/Bororen	\$528.00	\$3.69/kL	10% (base)	
Agnes Water/1770	\$528.00	\$3.74/kL	10% (base)	
Beecher/Burua, Tuckers Road	\$471.00	\$1.83/kL	10% (base)	
Gympie	\$392.30	0-250kL = \$1.09/kL >250kL = \$1.95/kL	10%	

Provider & Location	Base	Consumption	Discount	Notes
Livingstone Capricorn Coast Caves/Marlborough Nerimbera Ogmore	\$603.80 \$416.80 \$397.50 \$349.60	0-300kL = \$0.81/kL 301-600kL = \$1.24/kL >600kL = \$2.51/kL	10% (base)	<ul style="list-style-type: none"> The application of the consumption tiers is on a cumulative basis, such that the second and third tiers are only levied when they are reached through the year rather than being apportioned to each quarterly meter read
Mackay	\$348.35	0-300kL = \$1.70/kL >300kL = \$2.55/kL	10% (base)	<ul style="list-style-type: none"> The first-tier threshold is an annual equivalent, with the actual consumption charge levied six-monthly on a first-tier threshold of 150kL per six months
Rockhampton Rockhampton Gracemere Mount Morgan	\$364.00 \$387.60 \$399.50	0-300kL = \$0.74/kL 301-600kL = \$1.15/kL >600kL = \$2.28/kL	10% (base)	<ul style="list-style-type: none"> The application of the consumption tiers is on a cumulative basis, such that the second and third tiers are only levied when they are reached through the year rather than being apportioned to each quarterly meter read
Toowoomba District Connections to Non-Toowoomba Bulk Water Supply	\$430.00	0-250kL = \$1.11/kL >250kL = \$1.97/kL	10%	<ul style="list-style-type: none"> The tiers are annual equivalents, with the actual consumption charge levied six-monthly on first and second tier thresholds of 50% of these annual equivalents per six months The consumption tier thresholds applied to a property increase with the size of the water connection
District Connections to Toowoomba Bulk Water Supply	\$590.00	0-200kL = \$2.27/kL >200kL = \$3.61/kL	10%	
District Connections to Low Flow Supply	\$295.00	0-200kL = \$2.27/kL >200kL = \$3.61/kL	10%	
District Connections to Non-Potable Supply	\$215.00	0-250kL = \$0.55/kL >250kL = \$0.98/kL	10%	
Townsville Standard Plan	\$739.00	772kL allocation >772kL = \$2.83/kL	0%	
Water Watchers Plan	\$337.00	\$1.35/kL	0%	

Source: AEC, assorted service providers

2. Water Consumption Charge Trends

The following table outlines the gross consumption charges adopted by selected water service providers in Queensland for the past 8 years.

Consumption Charge Trends for Selected Water Service Areas in Queensland, 2009/10-2016/17

Location	2016/17	2015/16	2015/16	2013/14	2012/13	2011/12	2010/11	2009/10
SEQ WATER GRID								
Brisbane (QLD Urban Utilities)	<300kL = \$3.516184/kL >=300kL = \$4.201640/kL	0-252kL = \$3.405261/kL 252-304kL = \$3.451247/kL >304kL = \$4.072047/kL	0-252kL = \$3.271090/kL 252-304kL = \$3.315650/kL >304kL = \$3.917201/kL	0-252kL = \$2.994909/kL 252-304kL = \$3.03755/kL >304kL = \$3.613197/kL	0-255kL = \$2.72/kL 256-310kL = \$2.76/kL >310kL = \$3.32/kL	0-255kL = \$2.45/kL 256-310kL = \$2.49/kL >310kL = \$3.05/kL	0-255kL = \$2.17/kL 256-310kL = \$2.21/kL >310kL = \$2.75/kL	0-255kL = \$1.84/kL 256-310kL = \$1.88/kL >310kL = \$2.39/kL
Ipswich (QLD Urban Utilities)	<300kL = \$3.639640/kL >=300kL = \$4.195096/kL	0-316kL = \$3.3502210/kL 317-472kL = \$4.042537/kL >472kL = \$4.433411/kL	0-316kL = \$3.363048/kL 317-472kL = \$3.886621/kL >472kL = \$4.265375/kL	0-316kL = \$3.080151/kL 317-472kL = \$3.581178/kL >472kL = \$3.943622/kL	0-320kL = \$2.80/kL 321-480kL = \$3.29/kL >480kL = \$3.63/kL	0-320kL = \$2.53/kL 321-480kL = \$3.02/kL >480kL = \$3.36/kL	0-320kL = \$2.24/kL 321-480kL = \$2.71/kL >480kL = \$3.05/kL	0-320kL = \$1.91/kL 321-480kL = \$2.36/kL >480kL = \$2.68/kL
Lockyer Valley (QLD Urban Utilities)	<300kL = \$3.008001/kL >=300kL = \$4.000731/kL	0-296kL = \$2.933919/kL >296kL = \$3.899610/kL	0-296kL = \$2.985077/kL >296kL = \$3.920824/kL	0-296kL = \$2.729523/kL >296kL = \$3.624975/kL	0-300kL = \$2.47572/kL >300kL = \$3.33756/kL	0-300kL = \$2.20572/kL >300kL = \$3.06756/kL	0-300kL = \$1.93/kL >300kL = \$2.77/kL	Not collected
Scenic Rim (QLD Urban Utilities)	<300kL = \$3.681640/kL >=300kL = \$4.237096/kL	\$3.612201/kL	\$3.749327/kL	\$3.465471/kL	\$3.18906/kL	\$2.91806/kL	\$2.63/kL	Not collected
Moreton Bay (Unitywater)	0-300kL = \$3.415/kL >300kL = \$4.081/kL	0-300kL = \$3.348/kL >300kL = \$4.014/kL	0-300kL = \$3.349/kL >300kL = \$4.015/kL	0-300kL = \$3.081/kL >300kL = \$3.725/kL	0-280kL = \$2.37/kL 281-360kL = \$3.04/kL >360kL = \$3.50/kL	0-280kL = \$2.10/kL 281-360kL = \$2.77/kL >360kL = \$3.23/kL	0-280kL = \$1.82/kL 281-360kL = \$2.47/kL >360kL = \$2.91/kL	0-280kL = \$1.50/kL 281-360kL = \$2.04/kL >360kL = \$2.40/kL
Sunshine Coast/Noosa (Unitywater)	0-300kL = \$3.111/kL >300kL = \$3.777/kL	0-300kL = \$2.939/kL >300kL = \$3.605/kL	0-300kL = \$2.767/kL >300kL = \$3.433/kL	0-300kL = \$2.499/kL >300kL = \$3.143/kL	0-219kL = \$2.15/kL >219kL = \$2.65/kL	0-219kL = \$1.88/kL >219kL = \$2.38/kL	0-219kL = \$1.59/kL >219kL = \$2.07/kL	0-219kL = \$1.35/kL >219kL = \$1.80/kL
Gold Coast	>0kL = \$3.83/kL	\$3.77/kL	\$3.80/kL	\$3.53/kL	\$3.26/kL	\$2.99/kL	\$2.68/kL	\$2.24/kL
Logan	>0kL = \$3.7704/kL	\$3.6863/kL	\$3.8644/kL	\$3.5813/kL	\$3.28/kL	\$3.00/kL	\$2.70/kL	\$2.25/kL
Redland	>0kL = \$2.951/kL	\$2.751/kL	\$2.80/kL	0-146kL = \$2.557/kL 146-292kL = \$3.067/kL >292kL = \$3.577/kL	0-146kL = \$2.16/kL 147-292kL = \$2.59/kL >292kL = \$3.02/kL	0-146kL = \$1.88/kL 147-292kL = \$2.31/kL >292kL = \$2.73/kL	0-146kL = \$1.59/kL 147-292kL = \$2.00/kL >292kL = \$2.41/kL	0-146kL = \$1.55/kL 147-292kL = \$1.95/kL >292kL = \$2.35/kL
OTHER QUEENSLAND								
Bundaberg	0-300kL = \$1.15/kL >300kL = \$1.88/kL	0-300kL = \$1.12/kL >300kL = \$1.84/kL	0-366kL = \$1.10/kL >366kL = \$1.80/kL	0-366kL = \$1.05/kL >366kL = \$1.70/kL	0-366kL = \$1.00/kL >366kL = \$1.65/kL	0-366kL = \$0.95/kL >366kL = \$1.60/kL	0-366kL = \$0.87/kL >366kL = \$1.50/kL	0-366kL = \$0.78/kL >366kL = \$1.40/kL
Cairns	\$1.13/kL	\$1.13/kL	\$1.11/kL	\$1.09/kL	\$1.12/kL	\$1.01/kL	\$0.96/kL	\$0.89/kL
Fraser Coast	\$1.73/kL	\$1.71/kL	\$1.64/kL	\$1.57/kL	\$1.50/kL	\$1.43/kL	\$1.37/kL	\$1.37/kL (Hervey Bay)
Gladstone	\$1.65/kL	\$1.65/kL	\$1.65/kL	\$1.59/kL	\$1.55/kL	\$1.95/kL	\$1.50/kL	\$0.95/kL
Gympie	0-250kL = \$1.09/kL >250kL = \$1.95/kL	0-250kL = \$1.06/kL >250kL = \$1.90/kL	0-250kL = \$1.03/kL >250kL = \$1.85/kL	0-250kL = \$1.00/kL >250kL = \$1.80/kL	0-250kL = \$0.95/kL >250kL = \$1.64/kL	0-250kL = \$0.90/kL >250kL = \$1.50/kL	0-250kL = \$0.80/kL >250kL = \$1.50/kL	0-250kL = \$0.70/kL >250kL = \$1.50/kL
Yeppoon (Livingstone)	0-300kL = \$0.81/kL 301-600kL = \$1.24/kL >600kL = \$2.51/kL	0-300kL = \$0.77/kL 301-600kL = \$1.18/kL >600kL = \$2.38/kL	0-300kL = \$0.73/kL 301-600kL = \$1.12/kL >600kL = \$2.26/kL	0-300kL = \$0.66/kL 301-600kL = \$1.01/kL >600kL = \$2.04/kL	0-300kL = \$0.62/kL 301-600kL = \$0.96/kL >600kL = \$1.93/kL	0-300kL = \$0.61/kL 301-600kL = \$0.95/kL >600kL = \$1.83/kL	0-300kL = \$0.59/kL 301-600kL = \$0.92/kL >600kL = \$1.77/kL	0-300kL = \$0.55/kL 301-600kL = \$0.86/kL >600kL = \$1.66/kL
Mackay	0-300kL = \$1.70/kL >300kL = \$2.55/kL	0-300kL = \$1.70/kL >300kL = \$2.55/kL	0-300kL = \$1.70/kL >300kL = \$2.55/kL	0-300kL = \$1.60/kL >300kL = \$2.40/kL	0-300kL = \$1.49/kL >300kL = \$2.25/kL	0-300kL = \$1.40/kL >300kL = \$2.11/kL	0-300kL = \$1.33/kL >300kL = \$2.01/kL	0-300kL = \$1.13/kL >300kL = \$1.70/kL
Rockhampton	0-300kL = \$0.74/kL 301-600kL = \$1.15/kL >600kL = \$2.28/kL	0-300kL = \$0.71/kL 301-600kL = \$1.11/kL >600kL = \$2.21/kL	0-300kL = \$0.69/kL 301-600kL = \$1.08/kL >600kL = \$2.16/kL	0-300kL = \$0.67/kL 301-600kL = \$1.04/kL >600kL = \$2.09/kL	0-300kL = \$0.62/kL 301-600kL = \$0.96/kL >600kL = \$1.93/kL	0-300kL = \$0.59/kL 301-600kL = \$0.91/kL >600kL = \$1.83/kL	0-300kL = \$0.57/kL 301-600kL = \$0.88/kL >600kL = \$1.77/kL	0-300kL = \$0.53/kL 301-600kL = \$0.83/kL >600kL = \$1.66/kL
Toowoomba	0-200kL = \$2.27/kL >200kL = \$3.61/kL	0-200kL = \$2.20/kL >200kL = \$3.47/kL	0-200kL = \$2.20/kL >200kL = \$3.47/kL	0-200kL = \$2.20/kL >200kL = \$3.47/kL	0-200kL = \$2.10/kL >200kL = \$3.30/kL	0-200kL = \$2.10/kL >200kL = \$3.30/kL	0-200kL = \$1.50/kL >200kL = \$2.80/kL	0-200kL = \$1.50/kL >200kL = \$2.80/kL

Location	2016/17	2015/16	2015/16	2013/14	2012/13	2011/12	2010/11	2009/10
Townsville	772kL allocation* >772kL = \$2.83/kL* \$1.35/kL**	772kL allocation* >772kL = \$2.83/kL* OR \$1.35/kL**	772kL allocation* >772kL = \$2.79/kL* OR \$1.33/kL**	772kL allocation* >772kL = \$2.74/kL* OR \$1.30/kL**	772kL allocation* >772kL = \$2.61/kL* OR \$1.24/kL**	772kL allocation* >772kL = \$2.49/kL* OR \$1.18/kL**	\$0.65/kL	0-772kL = \$0.69/kL >772kL = \$2.12/kL

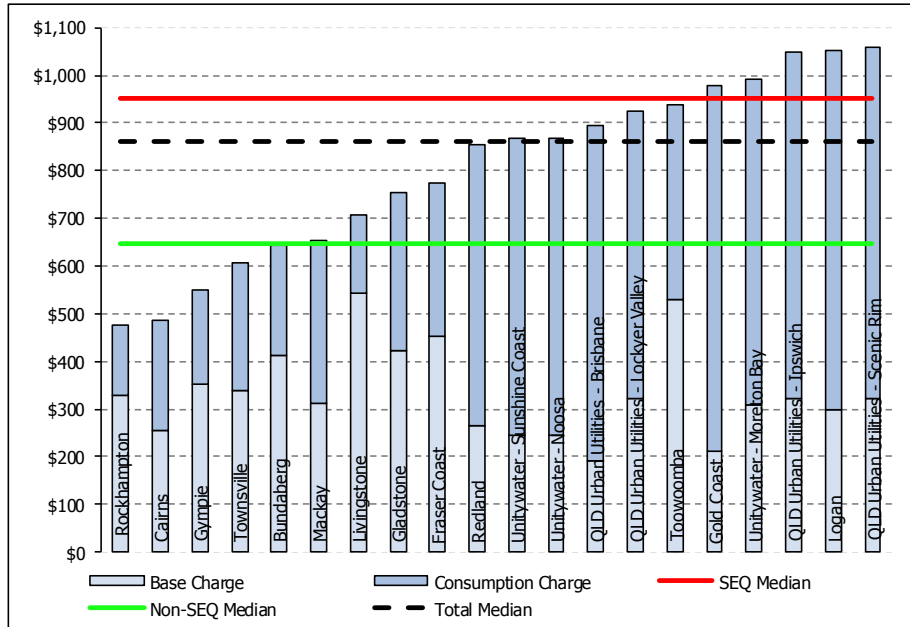
Source: AEC, assorted service providers
Notes: *Standard Plan, **Water Watchers Plan



3. Comparison of Water Charges

The graph below compares a residential water bill at 200kL consumption (net of discount), selecting the main area/s of supply within each region. The median charge is \$860.46, 4.8% higher than the prior year (\$821.03). The SEQ median charge is \$951.06 (1.9% higher than the prior year of \$933.27), which is 47% higher than the non-SEQ median charge of \$647.76 (0.8% higher than the prior year of \$642.76).

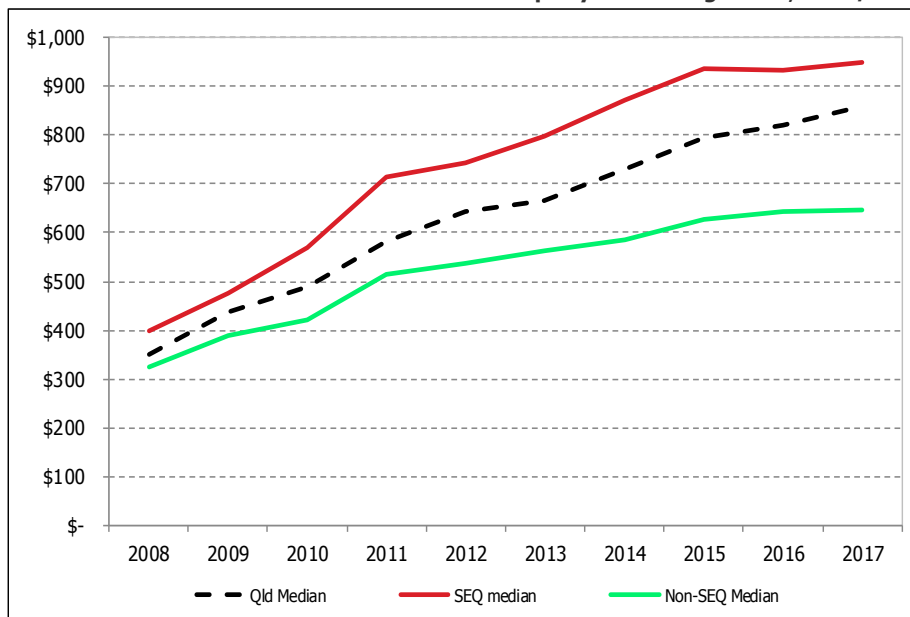
Average Residential Water Bill for a Property Consuming 200kL, 2016/17



Source: AEC
Notes: Water Watchers Plan used for Townsville residential bill calculation.

The graph below maps SEQ and non-SEQ median residential charges for a property consuming 200kL per annum over time. The SEQ median charge has historically increased at a greater rate than the non-SEQ median charge, to the extent that the gap between the two is now \$303, up from just \$74 in 2007/08. This gap is not expected to widen much further in the future.

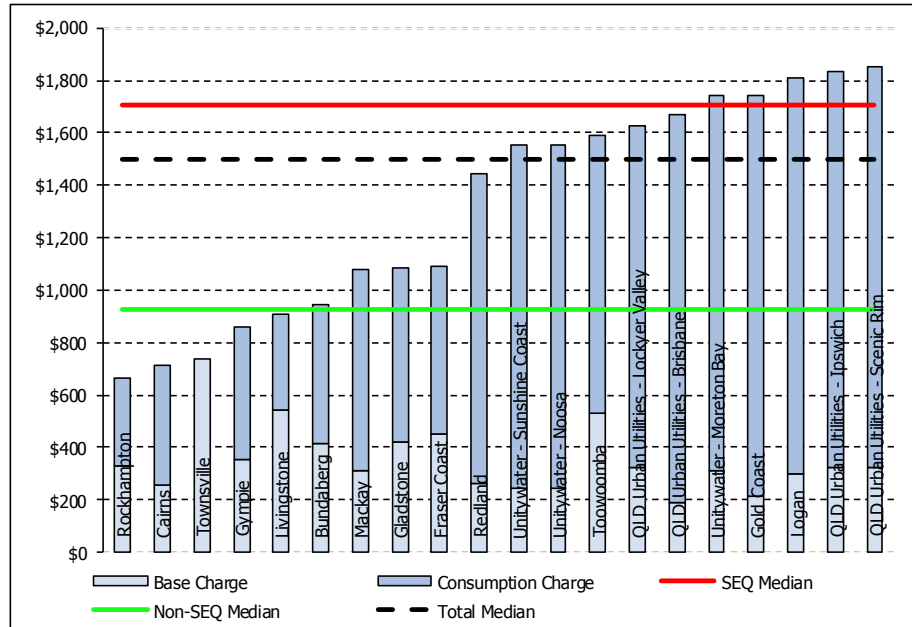
Median Residential Water Bill over Time for a Property Consuming 200kL, 2007/08-2016/17



Source: AEC

The graph below compares a residential water bill at consumption of 400kL (net of discount), selecting the main area/s of supply within each region. The median charge is \$1,499.96, 5.4% higher than the prior year (\$1,423.33). The SEQ median charge is \$1,704.61 (2.5% higher than the prior year of \$1,663.01), which is 84% higher than the non-SEQ median charge of \$927.71 (3.4% higher than the prior year of \$897.52).

Average Residential Water Bill for a Property Consuming 400kL, 2016/17

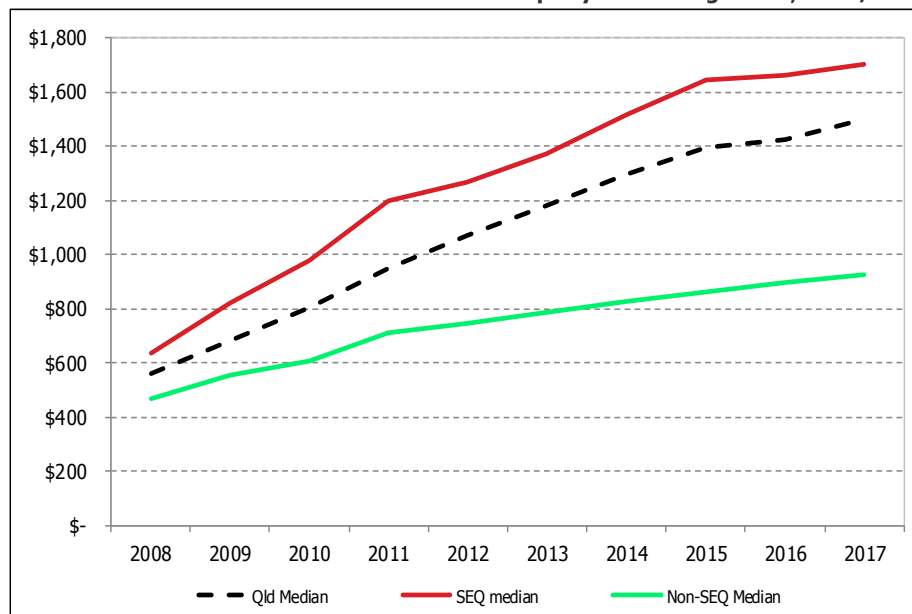


Source: AEC

Notes: Standard Plan used for Townsville residential bill calculation.

The graph below maps SEQ and non-SEQ median residential charges for a property consuming 400kL per annum over time. The SEQ median charge has historically increased at a greater rate than the non-SEQ median charge, to the extent that the gap between the two is now \$777, up from just \$169 in 2007/08. This gap is not expected to widen much further in the future.

Median Residential Water Bill over Time for a Property Consuming 400kL, 2007/08-2016/17



Source: AEC

4. Wastewater Pricing Levels

The following table provides information on the prices charged for a wastewater (or sewerage) service by selected large service providers in Queensland on a residential property.

Wastewater Price Benchmarking for Large Service Providers in Queensland, 2016/17

Provider & Location	Charge	Discount	Comments
SEQ^(a)			
QLD Urban Utilities			
Brisbane	\$521.88	0%	<ul style="list-style-type: none"> In the Lockyer Valley region, additional pedestal charges apply to residential premises at \$348.84 per pedestal In Scenic Rim, vacant land is levied a reduced charge of \$311.28 In the Somerset region, vacant land charges are \$385.00 in the Kilcoy service area and \$301.80 in all other service areas
Ipswich	\$603.12	0%	
Lockyer Valley	\$461.52	0%	
Scenic Rim	\$548.28	0%	
Somerset – Lowood, Fernvale, Esk, Toogoolawah	\$548.28	0%	
Somerset – Kilcoy	\$436.96	0%	
Unitywater			
Moreton Bay Region	\$700.07 + 0-270kL = \$0.667/kL	0%	<ul style="list-style-type: none"> Sewage discharges are determined by applying a discharge factor of 90% to measured water consumption, and are capped at 270kL per residence
Sunshine Coast and Noosa	\$535.82 + 0-270kL = \$0.667/kL	0%	
Gold Coast	\$725.12	0%	
Logan	\$704.00	0%	<ul style="list-style-type: none"> Common Effluent Disposal scheme levied a charge of \$565.12 Vacant land is levied a reduced charge of \$529.80
Redland	\$675.75	0%	<ul style="list-style-type: none"> Developed residential and vacant residential properties are charged for 25 sewer units with the unit charge being \$27.03
OTHER QUEENSLAND			
Bundaberg	\$705.00	0%	
Cairns	\$757.80	0%	<ul style="list-style-type: none"> Vacant lots are levied a reduced charge of \$603.320 Standard commercial charges per pedestal are applied for connections servicing common property (e.g. toilet servicing swimming pool area or foyer)
Fraser Coast	\$767.00	7.5%	
Gladstone			
Gladstone	\$667.00	10%	<ul style="list-style-type: none"> Vacant land is levied reduced charges of \$466.90, \$520.80 and \$618.80, respectively
Boyne Island, Tannum Sands, Calliope	\$744.00	10%	
Agnes Water/1770	\$884.00	10%	
Gympie	\$690.40	10%	
Livingstone	\$737.20	10%	<ul style="list-style-type: none"> Vacant land is levied a reduced charge of \$700.30
Mackay	\$842.45	10%	<ul style="list-style-type: none"> Properties connected to the North Eton Biocycle system are levied a charge of \$717.00
Rockhampton			
Rockhampton	\$589.10	10%	<ul style="list-style-type: none"> Vacant land within each district is levied a reduced charge as follows: Rockhampton \$559.70, Gracemere \$731.40 and Mount Morgan \$675.30
Gracemere	\$769.90	10%	
Mount Morgan	\$710.90	10%	
Toowoomba	\$455.60	10%	<ul style="list-style-type: none"> Additional charges are levied on properties with greater than four pedestals at a rate of \$222.80 per additional pedestal Residential properties connected to a common effluent drainage sewerage system are levied a charge of \$222.80, plus \$111.40 for each pedestal in excess of four Vacant land is levied a reduced charge of \$222.80
Townsville	\$759.00	0%	<ul style="list-style-type: none"> Vacant land is levied a reduced charge of \$683.00

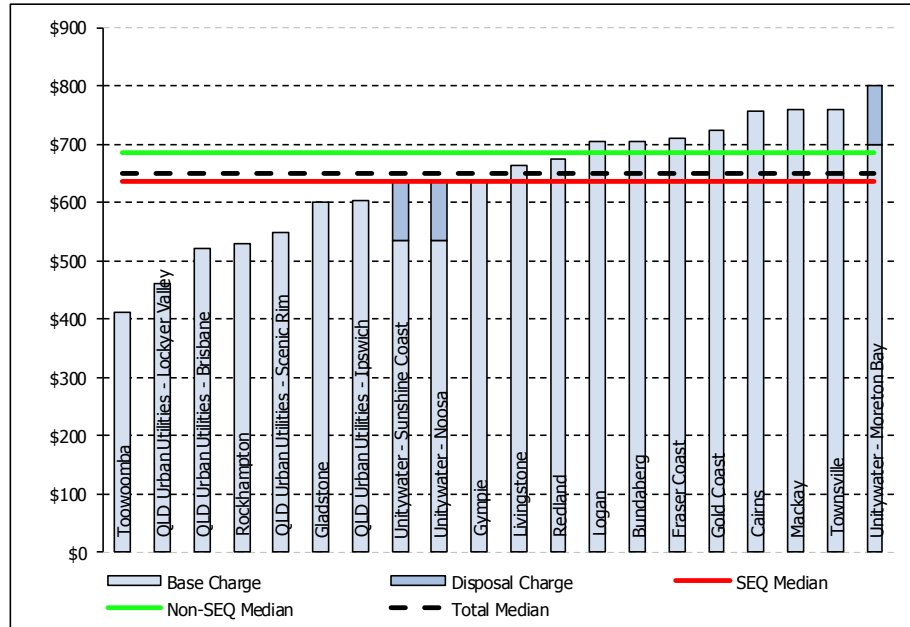
Source: AEC, assorted service providers

Notes: (a) The same classifications as that adopted for water (i.e. SEQ Water Grid versus Other Queensland) are retained for wastewater charging for consistency.

5. Comparison of Wastewater Charges

The graph below compares a residential wastewater bill (net of discount), selecting the main area/s of supply within each region. The median charge is \$651.05, 3.4% higher than the prior year (\$629.67). The SEQ median charge is \$635.87 (1.4% higher than the prior year of \$626.82), which is 7% lower than the non-SEQ median charge of \$684.24 (4.4% higher than the prior year of \$655.26).

Average Residential Wastewater Bill, 2016/17

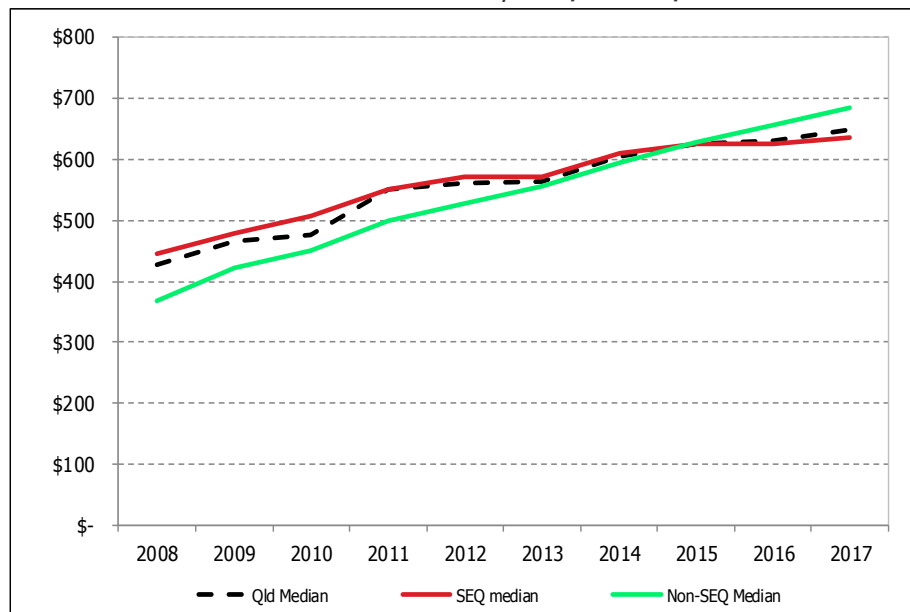


Source: AEC

Notes: * Average residential discharge levels of around 150kL are assumed for Moreton Bay and Sunshine Coast/Noosa.

The graph below maps SEQ and non-SEQ median charges for a residential property over time. The non-SEQ median charge has been increasing at a greater rate than the SEQ median charge, resulting in the non-SEQ median overtaking the SEQ median in 2014/15 and being presently \$48 higher than the SEQ median.

Median Residential Wastewater Bill over Time, 2008/09-2016/17



Source: AEC



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OUTCOME DRIVEN

