



TO: CHAIR AND MEMBERS

DATE:

2018 November 19

FINANCIAL MANAGEMENT COMMITTEE

FROM: DIRECTOR FINANCE

FILE: 39500-07 *Water Rates*

SUBJECT: 2019 WATERWORKS UTILITY RATES

PURPOSE: To request Council approval for a 2% increase to the 2019 Waterworks Utility

Rates and bylaw revisions contained herein.

RECOMMENDATION:

1. THAT the Financial Management Committee recommend Council authorize the City Solicitor to amend the Burnaby Waterworks Regulation Bylaw 1953 for the 2019 Water Rates contained in Schedule C of this report, and amend the bylaw as outlined in Section 4 of this report, effective 2019 January 01.

REPORT

1.0 BACKGROUND

The Waterworks Utility is financially self-sustaining; funding for operations comes from utility rates and/or reserves. There is no impact on property taxes from any increased demand for water services. Water rates are reviewed annually and revised to account for changes in costs associated with the delivery of water to Burnaby. Water rates are changed by way of an amendment to the Burnaby Waterworks Regulation Bylaw 1953 and adoption by Council.

The due date for payment of annual waterworks utility fees is March 15th each year. To promote payment by the due date, Burnaby offers discounted rates for payments received on or before the March 15th due date. Metered Water customers are offered the same incentive for payments made within 30 days of the billing date. The intent of the bylaw is not to grant a discounted rate for partial payments.

Table 1 provides rate increase information over the past five years and the proposed rate for 2019.

Table 1 - Rate Increases

2014	2015	2016	2017	2018	Proposed 2019
5.5%	3.0%	2.0%	1.0%	0.0%	2.0%

From: Director Finance

Re: 2019 Waterworks Utility Rates

2.0 WATERWORKS UTILITY EXPENDITURES

The 2019 Waterworks Utility Operating Expenditure Budget totals \$56.8 million, an increase of \$1.6 million compared to 2018. The 2019 Waterworks Utility Operating Expenditure Budget is summarized in Chart 1 below. Schedule A (attached), provides further details of the City's Waterworks Utility Five Year Operating Plan.

2019 Waterworks Utility Operating Expenditure Budget \$56.8 million ■ Metro Vancouver – Greater Vancouver \$9,388,770, 16% \$29,461,790,52% Water District Costs ■ Transmission, Distribution & Pumping ■ Infrastructure Investment ■ Transfer to Reserve for Future GVWD Increases \$14,000,000, 25% \$3,415,800,6% \$500,000, 1%_

Chart 1 – 2019 Waterworks Utility Operating Expenditure Budget

2.1 Metro Vancouver – Greater Vancouver Water District Costs

The cost of water from the Greater Vancouver Water District (GVWD) continues to form the largest percentage of overall expenditure for 2019, at just under 52% of total expenditure. The GVWD is responsible for acquiring and maintaining the water supply, treating it to ensure its quality and delivering it to the City. The GVWD also provides ongoing capital work for the treatment of water, including the upgrading of facilities to meet safety and environmental standards.

2019 volumes are based on the City of Burnaby's average volume for the prior three years. Rates are as per GVWD. 2020 – 2023 rates are based on GVWD projected rate increases. Volumes for this period are also based on GVWD projected increases. For 2019, the City has budgeted for consumption of 39.7m cubic metres, which is in line with GVWD estimates. The estimated cost of

From: Director Finance

Re: 2019 Waterworks Utility Rates

the 2019 GVWD water delivery service for Burnaby is \$29.4 million, an increase of \$1.5 million over the 2018 budget.

Schedule B (attached) summarizes the projected 2019 – 2023 GVWD increases in the cost of water services provided to Burnaby, with historical data going back to 2014. The City of Burnaby's longer range forecast rate increases for the GVWD cost of water services from 2024 to 2028 are based on average rate increase from 2017 – 2020. The blended 2019 rate increase for the GVWD is 5.8%. The 2019 GVWD rates for peak and off peak rates are as follows:

- Peak (June to September) \$0.8399 per cubic metre @ 16,233 cubic metres.
- Off Peak (January to May / October to December) \$0.6719 per cubic metre @ 23,556 cubic metres.

The following are examples of current and planned major GVWD initiatives supported by 2019 rate increases:

2019 Major Capital Projects

- o Coquitlam Intake No. 2 project definition
- o Coquitlam Main No. 4 design
- o Capilano Raw Water Pump Station Back-up Power
- o Capilano Main No. 5 (Stanley Park Section) design
- o Annacis Marine Crossing design
- Second Narrows Marine Crossing construction
- o Port Mann Main No. 2 (South) construction
- o Jericho Reservoir construction
- Fleetwood Reservoir construction

The City's approach to maintaining a stable level of operating reserves allows for rate increases that are well below the GVWD increases. Proposed rate increases for future years are set out in Table 2 below:

Table 2 – Planned GVWD and City Increases

GVWD 2019 – 2023 Plan ¹	2019	2020	2021	2022	2023
GVWD Blended Rate Increase	5.8%	10.9%	11.0%	11.7%	11.6%
Total GVWD Operating Budget	\$289.1m	\$323.2m	\$359.5m	\$403.7m	\$453.0m
Total GVWD Capital Budget	\$231.4m	\$395.7m	\$440.9m	\$486.0m	\$477.2m
Household Impact	\$172	\$189	\$207	\$229	\$253
% Change on Household	4.5%	10.0%	9.5%	10.5%	10.5%
Planned City of Burnaby % change	2.0%	3.0%	3.0%	3.0%	3.0%

¹ Metro Vancouver Corporate Planning Committee Budget Workshop – October 17, 2018

From: Director Finance

Re: 2019 Waterworks Utility Rates

2.2 Transmission, Distribution & Pumping

The City's Engineering Department, Water Services Division, provides high quality drinking water to homes and businesses, as well as water supply for fire suppression. This division manages the installation and maintenance of over 700 kilometers of watermains and connections throughout the City. Planned 2019 transmission, distribution, and pumping expenditure is proposed to increase by \$1.3 million to \$9.4 million.

Key changes include:

- \$600,000 related to water service connections activity. A provision for connections with performance issues in the past was included in the capital plan; however, after further review it was deemed that majority of this type of ongoing work is more of an operating activity. Since this is no longer classified as a capital activity the capital plan will have an offsetting reduction.
- \$300,000 is required due to the increase in costs associated with transporting construction materials for disposal at off site locations. These costs are incurred by the City and allocated evenly between both the Waterworks Utility and Sanitary Sewer Fund.
- \$210,000 in various operating expenditures related to Water Conservation and Enforcement initiatives and other operating initiatives.
- \$190,000 due to additional compensation costs such as collective agreement increases and staff pay-step increments.

2.3 Infrastructure Investment

The City's policy of funding ongoing replacement and development of required infrastructure continues to ensure a stable and sustainable capital program. The 2019 infrastructure investment is budgeted at \$14 million. This figure ensures that capital funds held in reserves are sufficient to fund capital expenditures for the future.

2.4 Transfer to Reserve for Future GVWD Increases

The City is setting aside funding to the Waterworks Utility Operating Reserve from 2019 to 2021, which will help to reduce the upward pressure of GVWD rate increases in future years, keeping future rate increases to citizens stable.

2.5 Contingency

A contingency amount, consistent with prior years, of \$500,000 has been built into the budget to accommodate for any unforeseen costs that may arise during the year.

From: Director Finance

Re: 2019 Waterworks Utility Rates

3.0 SOURCES OF FUNDS

The Waterworks Utility is self-funding. Rates are based on a user pay principle and structured to fund the cost of Burnaby's water services. The rate structure includes the funding of the City's capital infrastructure renewal programs and water services, the supply cost of water provided by the GVWD, and the funding of operations including maintenance programs. The rate structure is divided into three categories: Flat Water, Metered Water and Other fees. A transfer from reserve is used to stabilize rates.

Chart 2 below provides a breakdown of 2019 funding sources net of early payment discounts.

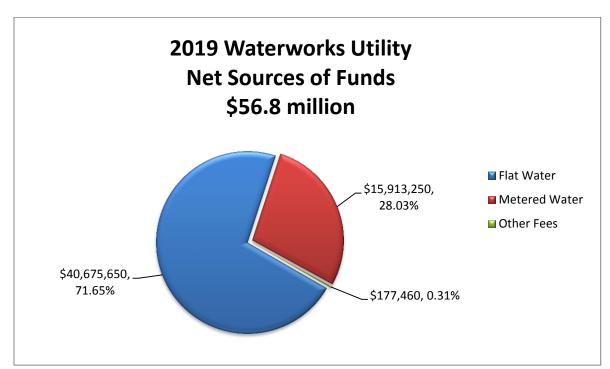


Chart 2 – 2019 Waterworks Utility Net Sources of Funds

3.1 Flat Water

Flat water charges make up 71.7% of all revenues, at \$40.6 million (net of discounts). The projected revenue increase for 2019 is \$1.3 million. This is based on an estimated 1% annual growth factor for 2019 and the general rate increase.

3.2 Metered Water

Approximately 2,800 customers are metered, which accounts for 28% of total revenues (net of discounts). Despite an overall average decline in consumption of 0.96% over the past ten years, 2017 full year actuals were higher than forecast. The 2019 budget is based on past actual consumption levels, with 2019 revenues estimated at \$15.9 million after applicable discounts.

From: Director Finance

Re: 2019 Waterworks Utility Rates

3.3 Other Fees (Sales of Services, Permits and Construction Charges)

Other revenues in 2019 include Construction Water (Flat and Metered), Permits, Special Meter Readings and Testing. Rates for construction water charges increase in line with all other water rates. Revenue from these sources is estimated at \$177,460 for 2019.

3.4 Transfer from Reserve

For 2019, there is no transfer from reserve. In future years the water operating reserve fund will be used to offset GVWD rate increases, meaning that the City can set rate increases that are significantly lower than those of the GVWD.

4.0 BYLAW AMENDMENTS

The following revisions to Schedule C of this report (Schedule A of the Waterworks Regulation Bylaw 1953) are proposed:

4.1 Metered Rates

In line with Metered Sewer Rates, a single tier rate per cubic metre of water consumption is applied to all monthly and quarterly accounts. As such, multiple tiers are no-longer shown on Schedule C to this report, and will be updated within Schedule A of the bylaw.

4.2 Cost of connection – Tie In

This fee is being added to the Waterworks Regulation Bylaw 1953.

4.3 Water Transfers

This fee is being added to the Waterworks Regulation Bylaw 1953.

4.4 Water Meter Purchase and Installation

These rates have been added to Schedule C of this report and will be added to the bylaw to capture meter purchase and installation charges.

4.5 Other Installation / Device Fees

The fees for the Nelson box purchase and installation, and Fireline Meter purchase and installation have been included in Schedule C of this report and will be added to the bylaw.

From: Director Finance

Re: 2019 Waterworks Utility Rates

4.6 Watering Permit

This fee is being added to the Waterworks Regulation Bylaw 1953.

With inclusion of the fees listed above in Schedule C attached, going forward rate increases for these fees will adhere to the general annual rate increase for the Waterworks Utility.

5.0 SUMMARY

The Waterworks Utility is self-funding and debt free. Rates are based on a user pay principle and structured to fund the cost of Burnaby's water services. For 2019, it is recommended that rates increase by 2%, to help offset future rate increases by GVWD.

A number of fee additions have been made to Schedule C to this report (Schedule A of the Burnaby Waterworks Regulation Bylaw 1953).

The Director Engineering concurs with the recommendations contained in this report.

6.0 RECOMMENDATION

It is recommended that the Financial Management Committee recommend Council authorize the City Solicitor to amend the Burnaby Waterworks Regulation Bylaw 1953 for the 2019 Water Rates contained in Schedule C and the bylaw amendments as outlined in Section 4 of this report effective 2019 January 01.

Noreen Kassam, CPA, CGA DIRECTOR FINANCE

NK:RR:WK /ml

Attachments: Schedule A – City's Waterworks 5 Year Operating Plan

Schedule B – Cost of Water Supplied to Burnaby by Metro Vancouver (GVWD)

Schedule C – Water Rates

Copied to: City Manager

Director Engineering

City Solicitor City Clerk

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Annual	2019 Budget	2020 Projected	2021 Projected	2022 Projected	2023 Projected
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE										
Metro Vancouver – Greater Vancouver Water District Costs	25,199,090	26,159,327	25,865,340	26,983,019	27,943,500	29,461,790	32,832,700	36,597,400	41,167,700	46,341,600
Transmission, Distribution & Pumping	6,083,121	6,385,702	6,203,023	6,822,740	8,110,600	9,388,770	9,670,430	9,960,540	10,259,360	10,567,140
Infrastructure Investment	15,001,520	15,682,345	16,002,500	21,131,130	18,500,000	14,000,000	11,500,000	11,500,000	11,500,000	11,500,000
Transfer to Reserve for Future GVWD Increases	-	-	-	-	-	3,415,800	4,185,550	2,108,080	-	-
Special Project - One Time Request	-	-	-	-	125,000	-	-	-	-	-
Contingency	-	-	-	-	500,000	500,000	500,000	500,000	500,000	500,000
Surplus	2,347,641	2,156,657	4,122,981	-	-	-	-	-	-	-
TOTAL	48,631,372	50,384,032	52,193,844	54,936,900	55,179,100	56,766,360	58,688,680	60,666,020	63,427,060	68,908,740
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GROSS REVENUES/TRANSFERS										
Flat Rates (Net of Discounts, including Secondary Suites)	34,175,090	35,808,730	36,965,274	39,153,697	39,472,490	40,675,650	41,991,610	43,340,900	44,730,950	46,162,860
Metered Rates (Net of Discounts)	14,309,728	14,457,163	15,172,485	15,552,029	15,388,710	15,913,250	16,519,620	17,147,670	17,800,850	18,480,150
Construction - Metered Charges	41,143	23,460	15,280	3,412	23,600	23,800	23,800	23,800	23,800	23,800
Construction - Flat Rate Charges	58,892	39,520	200	32,800	32,900	47,430	47,430	47,430	47,430	47,430
Permits and Fees	13,351	12,017	11,131	22,714	17,200	16,970	16,970	16,970	16,970	16,970
Other Sales of Services	33,168	43,141	29,473	22,732	35,300	89,260	89,250	89,250	89,250	89,250
Transfer from Reserve	-	-	-	149,500	208,900	-	-	-	717,810	4,088,280
TOTAL	48,631,372	50,384,032	52,193,844	54,936,900	55,179,100	56,766,360	58,688,680	60,666,020	63,427,060	68,908,740
Rate Increase	5.50%	3.00%	2.00%	1.00%	0.00%	2.00%	3.00%	3.00%	3.00%	3.00%

Finance Department November 2018

Year	Cost/m³	Inc	Increase over the previous year				Change <u>Volumes m³</u> In volume			Annual cost to Burnaby	Increase in the tot of water to Bu	
. 53.		\$	\$	%	%	_	01011100 111	_		to Barrias,	or mater to be	
	Off-Peak Peak	Off-Peak	Peak	Off-Peak	Peak	Off-Peak	Peak	Total m ³	%	000 \$	000 \$	%
2014 Actual	0.5724 0.7155	0.0220	0.0275	4.00	4.00	22,338	17,348	39,687	-6.60	25,199	-622	-2.41
2015 Actual	0.5816 0.7270	0.0092	0.0115	1.61	1.61	23,871	16,886	40,757	2.70	26,159	960	3.81
2016 Actual	0.5926 0.7407	0.0110	0.0137	1.89	1.88	24,028	15,696	39,724	-2.53	25,865	-294	-1.12
2017 Actual	0.6113 0.7641	0.0187	0.0234	3.16	3.16	23,270	16,700	39,970	1.98	26,983	1,397	5.40
2018 Budget	0.6350 0.7938	0.0237	0.0297	3.88	3.89	23,778	16,181	39,959	-1.36	27,943	681	2.50
2019 Budget	0.6719 0.8399	0.0369	0.0461	5.81	5.81	23,556	16,233	39,790	-0.42	29,462	1,519	5.44
2020 Budget	0.7451 0.9314	0.0732	0.0915	10.90	10.90	23,789	16,219	40,007	0.55	32,833	3,371	11.44
2021 Budget	0.8271 1.0339	0.0820	0.1025	11.00	11.00	23,888	16,287	40,175	0.42	36,597	3,765	11.47
2022 Budget	0.9239 1.1549	0.0968	0.1210	11.70	11.70	24,057	16,402	40,459	0.71	41,168	4,570	12.49
2023 Budget	1.0310 1.2888	0.1072	0.1340	11.60	11.60	24,266	16,544	40,810	0.87	46,342	5,174	12.57
Increase 2014 - 2	018	0.0846	0.1058	10.94	10.94						2,122	10.89
Projected increase	e 2019 - 2023	0.3960	0.4950	53.45	53.45						18,399	57.29

NOTES:

2014-2017 volumes are based on actuals up to December 31 2017.

2018 volumes and costs are based on expenditure as of October 2018. An estimate is used for the remainder of the year based on prior year averages.

2019 volumes are based on the City of Burnaby average volume for the prior three years. Rates are as per GVWD.

2020-2023 rates are based on GVWD projected rate increases. Volumes for this period are based on GVWD projected increases.

Finance Department November 2018

2019 WATERWORKS RATES SCHEDULE C

	Effective 2018 Jan 01	Effective 2018 Jan 01	Effective 2019 Jan 01	Effective 2019 Jan 01
Note - full payment of the amount specified is required by the due date in order to receive the lower rate, where applicable.	Paid by Mar. 15	Paid after Mar. 15	Paid by Mar. 15	Paid after Mar. 15
	\$	\$	\$	\$
FLAT RATES				
Detached Single Family Dwelling	578.17	608.60	589.73	620.77
Two Family Dwelling, including strata, forming part of a duplex- Per Unit	433.63	456.45	442.30	465.58
Multiple Family Dwelling, including strata, not part of a duplex - Per Unit:	331.99	349.46	338.63	356.45
Secondary suite, or in-law suite in a Single Family Dwelling	289.09	304.30	294.88	310.39
In-Law Suite in a Two Family Dwelling	216.82	228.23	221.16	232.79
Commercial - not more than 3 stores / offices:	4450.04	4 0 4 7 0 0	4470.47	4.044.54
Commercial and living quarters, 1 family	1156.34	1,217.20	1179.47	1,241.54
Commercial and no living quarters	578.17	608.60	589.74	620.77
CROSS CONNECTION CONTROLS				
Per Device	51.96	54.69	53.01	55.79
Minimum Per Unit	6.53	6.87	6.67	7.01
	Paid within 30	Paid 31 or	Paid within 30	Paid 31 or
METERED RATES	days of billing	more days after	days of billing	more days
	date	billing date	date	after billing
Monthly				
Per cubic metres	1.536	1.616	1.570	1.6500
Minimum monthly	48.18	50.72	49.15	51.74
Quarterly				
Per cubic metres	1.536	1.616	1.570	1.6500
Minimum quarterly	144.54	152.16	147.44	155.20
WATER CONNECTION	As per agreed co			cost of connection
WATER TIE IN	Added to byla		As per agreed	cost of connection
WATER TRANSFERS	Added to byla	aw for 2019	As per agreed	cost of connection
Mater Durchage and Installation				
Meter Purchase and Installation	Added to but	ow for 2010	A a4.	val apat
Water Meter 5/8" to 10"	Added to byla			ual cost
Water Meter 5/8" installation	Added to byla		No discount	350.00
Water Meter 3/4" installation	Added to byla		No discount	450.00
Water Meter 1" installation	Added to byla		No discount	650.00
Water Meter 1.5" installation	Added to byla		No discount	1,100.00
Water Meter 2" installation	Added to byla		No discount	1,250.00
Water Meter 3" installation	Added to byla		No discount	2,100.00
Water Meter 4" installation	Added to byla		No discount	2,600.00
Water Meter 6" installation	Added to byla		No discount	5,000.00
Water Meter 8" installation	Added to byla		No discount	6,500.00
Water Meter 10" installation	Added to byla	aw for 2019	No discount	7,500.00
OTHER INSTALLATION / DEVICE FEES				
Nelson box purchase and installation for driveway MR6	Added to byla	aw for 2019	No discount	175.00
Fireline meter purchase - 6" to 10"	Added to byla			ual cost
6" Fireline Installation	Added to byla		No discount	7,500.00
8" Fireline Installation	Added to byla		No discount	•
	Added to byla			5,000.00
10" Fireline Installation	Added to by	aw 101 2019	No discount	6,500.00
CONSTRUCTION FLAT WATER ANNUAL CHARGE				
19 mm Connection	No discount	1,400.00	No discount	1,428.00
25 mm Connection	No discount	3,600.00	No discount	3,672.00
50 mm Connection	No discount	10,900.00	No discount	11,118.00
CONSTRUCTION OTHER				
Construction Meter Deposit 2019 (Previously connection charge)	No discount	5,000.00	No discount	5,100.00
Construction meter Usage Charge	As per Met	ered rates	As per M	etered rates
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2019 WATERWORKS RATES SCHEDULE C

Note - full payment of the amount specified is required by the due date in order to receive the lower rate, where applicable.

MISCELLANEOUS CHARGES

I. Water Turn-on / Turn-off request (per occurrence)

Regular hours: 7am to 11 pm Monday to Friday except statutory holidays

After hours: 11pm to 7am Mon - to Fri, weekends and statutory holidays

II. Fire Hydrant

Permit (Inspection fee)

Water use per day

Damage deposit (refundable)

III. Meter Test or retest

16 mm, 19 mm, 25 mm, 32 mm, 38 mm or 50 mm meters 76 mm, 102 mm, 152 mm or meters over 152 mm

IV. Service Disconnection

At Property Line

At Main

V. Special Meter Reading

VI. Watering Permit

RATE INCREASE

Effective 2018 Jan 01 Paid by Mar. 15	Effective 2018 Jan 01 Paid after Mar. 15
\$	\$
No discount	54.00
No discount	160.00
No discount	160.00
No discount	27.00
No discount	531.00
No discount	123.00
No discount	239.00
No discount	350.00
No discount	3,500.00
No discount	80.00
Added to byla	aw for 2019
0.00%	0.00%

Effective 2019 Jan 01 Paid by Mar. 15	Effective 2019 Jan 01 Paid after Mar. 15					
\$	\$					
Φ	Ψ					
No discount	55.08					
No discount	163.20					
No discount	163.20					
No discount	27.54					
No discount	541.62					
No discount	125.46					
No discount	243.78					
No discount	357.00					
No discount	3,570.00					
No discount	81.60					
No discount	50.00					
2.00%	2.00%					

Finance Department November 2018