



CITY OF RICHMOND

REPORT TO COUNCIL

To General Purposes - Dec 4/00

To Council - Nov. 28/00

DATE: November 14, 2000

TO: Richmond City Council

FROM: Jim Bruce
General Manager, Finance and Corporate Services

FILE: 0970-01 /01

xr B/L 7192

Chuck Gale, P. Eng.
General Manager, Engineering & Public Works

xr B/L 7193

xr B/L 7194

RE: 2001 Utility Budgets and Rate Bylaws

STAFF RECOMMENDATION

1. That the 2001 Utility Expenditure Budgets (as presented in the report dated November 14, 2000 from the General Managers, Finance & Corporate Services and Engineering & Public Works) be approved as the basis for establishing the 2001 Utility Rates.
2. That the following bylaws, which bring into effect the above 2001 Utility Rates, be introduced and given first, second and third readings:
 - (a) The City of Richmond Waterworks and Water Rates Bylaw No. 5637, Amendment Bylaw No. 7193 (2001); and
 - (b) The City of Richmond Sanitary Sewer Rates Bylaw No. 5681, Amendment Bylaw No. 7194 (2001).
 - (c) Solid Waste and Recycling Regulation Bylaw 6803, Amendment Bylaw No. 7192 (2001);

Jim Bruce
General Manager,
Finance and Corporate Services

Chuck Gale, P. Eng.
General Manager,
Engineering & Public Works

STAFF REPORTORIGIN

This report presents the 2001 utility budgets and rate bylaws for Water, Sewer and Solid Waste & Recycling. These rates must be established prior to the end of the year to enable billing in 2001.

ANALYSIS

The total 2001 utility billing is increased an average of 6%. The following table provides a breakdown of the rate change over 2000 by customer class.

<i>2000/2001 Utility Rates Comparison</i>				
<i>Customer Class</i>	<i>2000 Actual</i>	<i>2001 – Recommended Rates</i>	<i>\$ Difference over 2000</i>	<i>% Difference over 2000</i>
Single-Occupant (Single-Family Dwelling)	\$472.72	\$495.13	\$22.41	4.74%
Single-Family Dwelling	\$558.75	\$588.65	\$29.90	5.35%
Larger Homes (1" water connection)	\$733.52	\$802.63	\$69.11	9.42%
Single-Occupant Townhouse (on City garbage service)	\$434.94	\$456.24	\$21.30	4.90%
Townhouse (on City garbage service)	\$485.78	\$511.17	\$25.39	5.23%
Single-Occupant Townhouse (on City garbage service)	\$340.50	\$359.16	\$18.66	5.48%
Townhouse (on City garbage service)	\$391.34	\$414.09	\$22.75	5.81%
Single-Occupant (Apartment)	\$301.83	\$296.45	(\$5.38)	-1.78%
Apartment	\$323.56	\$320.37	(\$3.19)	-0.99%
Business: Water (\$/m ³)	\$0.4267	\$0.4547	\$0.0280	6.56%
Business: Sewer (\$/m ³)	\$0.4073	\$0.4291	\$0.0218	5.35%
Business: Garbage	\$14.44	\$14.79	\$0.35	2.42%

The major cost drivers which are contributing to the increases in 2001 are:

- The move from a flat rate to a consumption-based charge results in higher than average increases for single-family and large dwellings for water and sewer services. This program is being phased in over 4 years with 2001 being year 3. This rate adjustment will be completed in 2002.
- The water rate for single-occupants is increased in 2001 since the rate freeze that was previously in effect for this customer class has now expired. The rate increases are being phased in over two years and includes the necessary increases to reflect water consumption patterns as well as a percentage of overall water program cost increases. The sewer rate for single-occupants remains fixed through 2002.

- Increase in regional charges for water purchases and sewer treatment.
- Increased wages and benefit rates.
- Contract rate adjustments for solid waste and recycling services equal to the consumer price index.
- Increased energy costs.

An explanation of the budget differences and significant issues within each of the utility areas follows.

Water

The 2001 Water budget has increased \$1,115,278 over 2000:

Budget Items	2000	2001	\$ Difference	% Difference
Operating Expenditures	\$4,031,400	\$4,620,200	\$588,800	
Rate Stabilization Contribution	\$677,200	\$609,600	(\$67,600)	
GVRD Water Purchases	\$7,332,500	\$7,876,578	\$544,078	
Capital Program	\$2,090,000	\$2,090,000	\$0	
Other Fiscal	\$2,131,400	\$2,181,400	\$50,000	
Total	\$16,262,500	\$17,377,778	\$1,115,278	6.86%

The net increase relates equally to an increase in regional water purchases and to meet operational requirements inclusive of salary, benefit and supplier increases. Additional financial impacts include an increase in frequency and severity of Asbestos Cement Watermain breaks as well as a problem of maintaining water quality. New mandated requirements to meet water quality standards (testing, operator certifications, etc.) have a significant impact on the increase in operating expenditures.

The net impact is an average overall increase of 6.86% in the water rates. Residents in apartments will notice a reduction in their water rate, while residents in single-family and larger homes will experience a greater than normal offsetting increase. This is due to the equity adjustment to change from a flat rate to a consumption-based rate for water use. This trend will continue through 2002, when full equity is achieved within the residential customer classes. The rate for single-occupant users no longer remains fixed, and will increase over a 2 year phase-in period commencing in 2001 to reflect consumption patterns.

The budget amount presented reflects a contribution to the rate stabilization fund, as part of our rate leveling strategy. This helps to avoid and offset major spikes in the rates. Council could reduce or eliminate the amount of the rate stabilization contribution, which would translate to a reduction in the water rates. Staff do not recommend this action at this time since the GVWD Drinking Water Treatment Program includes large future expenditures for filtration. To offset these future impacts on the rates, it is recommended to continue accumulating the rate stabilization fund now in order to create sufficient reserves which can be reduced or drawn from later.

A comparison of the 2000 and 2001 water rates is provided below. The following chart details the dollar and percentage rate changes by customer class.

<i>2000/2001 Water Rates Comparison</i>				
<i>Customer Class</i>	<i>2000 Actual Rates</i>	<i>2001 Recommended Rates</i>	<i>\$ Difference 2001/2000</i>	<i>% Change 2001/2000</i>
Single Occupant	\$159.50	178.42	\$18.92	11.86%
Single Family Dwelling	\$212.05	225.62	\$13.57	6.40%
Larger Homes (1" connection)	\$307.95	344.19	\$36.24	11.77%
Townhouse	\$183.32	192.11	\$8.79	4.79%
Apartment	\$145.28	140.08	\$(5.20)	-3.58%
Metered Rate (\$/m ³)	\$0.4267	0.4547	\$0.02800	6.56%

The chart below provides a percentage breakdown of the rate increase by customer class for each of Richmond's and GVRD cost increases, as well as the proportion of the rate increase/decrease resulting from the change to a consumption based charge (equity adjustment).

<i>Percentage Breakdown of 2001 Water Rates Change from 2000 Rates</i>				
<i>Customer Class</i>	<i>2001 Rate Increase</i>	<i>Proportion of Rate Increase from Richmond Costs</i>	<i>Proportion of Rate Increase from GVRD Costs</i>	<i>Proportion of Rate Increase from Equity Adjustment</i>
Single Occupant	+12%	+3%	+3%	+6%
Single Family Dwelling	+6%	+3%	+3%	-
Larger Homes (1" connection)	+11%	+3%	+3%	+5%
Townhouse	+5%	+3%	+3%	-1%
Apartment	-4%	+3%	+3%	-10%
Metered Rate (\$/m ³)	+6%	+3%	+3%	-

Water rates are projected to increase approximately 6% per year over the next several years. This is due primarily to regional increases for implementing ozone disinfection and corrosion control at the Capilano and Coquitlam water reservoirs, a water filter plant at Seymour, seismic upgrading of the Seymour Dam and existing pump stations, and works to control seepage at the Capilano Dam. As construction is completed for these projects we will start paying for the additional operation and maintenance costs for these new facilities. City costs are projected to rise marginally to address additional costs associated with plant growth, CPI and possible increases related to demand repairs.

Sewer

The 2001 Sewer budget has increased \$852,810 over 2000:

Budget Items	2000	2001	\$ Difference
Operating Expenditures	\$2,544,200	\$2,734,800	\$190,600
GVS&DD O&M	\$7,104,200	\$7,112,110	\$7,910
GVS&DD DD Debt	\$5,377,400	\$5,448,200	\$70,800
Capital Program	\$1,050,000	\$550,000	(\$500,000)
Other Fiscal	\$1,573,000	\$1,583,000	\$10,000
Sub-Total	\$17,648,800	\$17,428,110	(\$220,690)
Investment Income	(\$550,000)	(\$550,000)	\$0
Property Tax Levy for DD Debt	(\$5,377,400)	(\$5,448,200)	(\$70,800)
Rate Stabilization	(\$1,144,300)	\$0	\$1,144,300
Sub Total	(\$7,071,700)	(\$5,998,200)	\$1,073,500
Net Revenue Required from Rates	\$10,577,100	\$11,429,910	\$852,810

The operating expenditures increases are due to a 4% negotiated increase in labour charges, a 3% increase in overhead charges, a 2% increase in material costs, and a 2% increase in infrastructure. In 2000, \$1,114,300 was transferred from the Rate Stabilization Fund. In 2001, no funds will be transferred. The weighted average increase in the sewer rates will be 6.2%. This increase can be reduced should Council wish to withdraw funds from the Rate Stabilization Fund. However, to cover future expenditures for infrastructure renewal and the next phase of the upgrading of the Lulu Island Treatment Plant, and the effect of these expenditures on future rates, staff recommend that there be no withdrawal from the Rate Stabilization Fund in 2001.

There were slight increases in the GVS&DD costs. There is a decrease in the capital program costs for 2001, \$500,000 will be added to the Sewer Lateral Reserve.

A comparison of the 2000 and 2001 sewer rates is provided below. The following chart details the dollar and percentage rate changes by customer class.

<i>2000/2001 Sewer Rates Comparison</i>				
<i>Customer Class</i>	<i>2000 Actual Rates</i>	<i>2001 Recommended Rates</i>	<i>\$ Difference 2001/2000</i>	<i>% Change 2001/2000</i>
Single Occupant	\$121.00	\$121.00	\$0.00	--
Single Family Dwelling	\$154.48	\$167.32	\$12.84	8.31%
Larger Homes (1" connection)	\$233.35	\$262.73	\$29.38	12.59%
Townhouse	\$148.02	\$162.24	\$14.22	9.61%
Apartment	\$142.73	\$144.92	\$2.19	1.53%
Metered Rate (\$/m ³)	\$0.4073	\$0.4291	\$0.0218	5.35%

The chart below provides a percentage breakdown of the rate increase by customer class for each of Richmond's and GVRD cost increases, as well as the proportion of the rate increase/decrease resulting from the change to a consumption based charge (equity adjustment).

Customer Class	2001 Rate Increase	Proportion of Rate Increase from Richmond Costs	Proportion of Rate Increase from GVRD Costs	Proportion of Rate Increase from Equity Adjustment
Single Occupant	--	--	--	--
Single Family Dwelling	+8%	+4%	+1.5%	+2.5%
Larger Homes (1" connection)	+12%	+4%	+1.5%	+6.5%
Townhouse	+9%	+4%	+1.5%	+3.5%
Apartment	+1%	+4%	+1.5%	-4.5%
Metered Rate (\$/m ³)	+8%	+4%	+1.5%	+2.5%

Sewer rates are projected to increase approximately 6% per year over the next several years. This is due primarily to plant growth, CPI and possible increases related to demand repairs, inflow and infiltration reduction, and the next phase of the Lulu Island Treatment Plant upgrading.

Solid Waste & Recycling

The 2001 Solid Waste & Recycling budget has increased \$88,545 over 2000:

Budget Items	2000	2001	\$ Difference	% Difference
Operating Expenditures	\$385,800	\$413,800	\$28,000	7.26%
Rate Stabilization	\$288,000	\$264,300	(\$23,700)	(8.23%)
Collection Contracts	\$2,935,300	\$3,063,900	\$128,600	4.38%
Disposal Costs	\$2,025,200	\$1,955,100	(\$70,100)	(3.46%)
Program Costs	\$911,100	\$914,000	\$2,900	.3%
Environmental Programs	\$131,355	\$154,200	\$22,845	17.4
Total	\$6,676,755	\$6,765,300	\$88,545	1.33%

The increases in this budget program relate primarily to the increase in staff wages and benefit costs as well as an increase in costs for garbage and recycling collection. Under the terms of our contract for these services, the City pays an annual increase to the contractor which is equivalent to the Consumer Price Index (CPI) for Vancouver for the prior year. A 3% CPI increase is provided for in this budget. There are no increases in 2001 in the regional tipping fee for garbage disposal.

In addition, program efficiencies and cost savings were realized in the following key areas. These reductions and efficiencies helped to offset the overall increase and are reflected in the overall budget and rates charged to customers.

- Reduction in illegal dumping charges due to the implementation of the Hansen work order system, which allows for better tracking and cost accountability. This resulted in savings of \$35,000.
- Overall reduction in waste disposal by Richmond residents, resulting in savings of approximately \$65,000.

- Reduction in budget allowance for the "free dump" voucher (based on program demand), resulting in savings of approximately \$20,000.
- Higher than anticipated revenues for the sale of our recycling materials, due to the current economic climate and market conditions.

The net effect is an increase of approximately \$3.00 in the 2001 garbage rate. Other rate changes are minimal in nature. A summary of the rates by customer class is presented in the following table. The 2000 rates are also provided for comparison purposes.

<i>2000/2001 Solid Waste & Recycling Rates Comparison</i>				
<i>Customer Class</i>	<i>2000 Actual Rates</i>	<i>2001 Recommended Rates</i>	<i>\$ Difference 2001/2000</i>	<i>% Change 2001/2000</i>
Single Occupant	\$192.22	\$195.71	\$3.49	1.8%
Single Family Dwelling	\$192.22	\$195.71	\$3.49	1.8%
Larger Homes (1" connection)	\$192.22	\$195.71	\$3.49	1.8%
Townhouse	\$154.44	\$156.82	\$2.38	1.5%
Apartment	\$35.55	\$35.37	(\$0.18)	(0.5%)
Business Rate	\$14.44	\$14.79	\$0.35	2.4%

The Solid Waste and Recycling budget is expected to increase only by the rate of inflation over the next two years. There is no increase anticipated in the regional tipping fee (currently \$65 per tonne) through 2003, when the GVRD expects to pay off a significant portion of their solid waste related debt. Richmond's residential contracts for garbage and recycling services expire at the end of 2002 (subject to two additional 1-year extensions). There could be a change in rates (either positive or negative) when this service is re-tendered.

FINANCIAL IMPACT

The 2001 utility budgets and the rates outlined in this report, represent full cost recovery for each respective area. These rates maintain the existing practices of reserve funding and rate stabilization. The utility rate bylaws reflect the rates as outlined in this report.

CONCLUSION

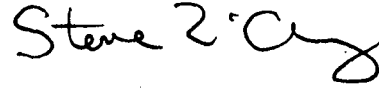
The utility rates presented reflect the transition from a flat rate to a consumption-based charge. This results in higher than average increases for residents in single-family homes and larger residences, and lower than average increases for residents in apartments and townhouses. This trend will continue through 2002, when full rate equity is achieved.

The water rate for single-occupants no longer remains fixed, commencing with the 2001 rates. This results in phased increases in the 2001 and 2002 rates for this customer class which reflect consumption patterns and program cost increases. The sewer rate for single-occupants remains fixed through 2002.

The rates are also impacted this year by an increase in staff wages and benefit rates, operational cost increases associated with maintaining an aging infrastructure, inflationary costs and an increase in regional charges for water purchases and sewer treatment.



Suzanne Bycraft
Manager, Environmental Programs



Steve McClurg
Manager, Water Services



Barrie King, P. Eng.
Manager, Sewerage & Drainage

SJB:

CITY OF RICHMOND
BYLAW NO. 7192

CITY OF RICHMOND SOLID WASTE & RECYCLING REGULATION
BYLAW NO. 6803
AMENDMENT BYLAW NO. 7192 (2001)

The Council of the City of Richmond, in open meeting assembled, enacts as follows:

1. The City of Richmond Solid Waste and Recycling Regulation Bylaw No. 6803 is amended by deleting Schedule A, Schedule B, Schedule C and Schedule D, and by substituting Schedule A, Schedule B, Schedule C and Schedule D attached hereto and forming part of this bylaw.
2. This Bylaw may be cited as "**Solid Waste and Recycling Regulation Bylaw No. 6803, Amendment Bylaw No. 7192 (2001)**".

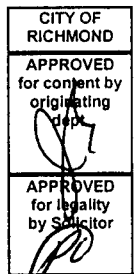
FIRST READING

SECOND READING

THIRD READING

ADOPTED

MAYOR



CITY CLERK

**City of Richmond
Solid Waste and Recycling Regulation Bylaw**

BYLAW YEAR: 2001

SCHEDULE A to BYLAW NO. 7192

FEES FOR CITY GARBAGE COLLECTION SERVICE		
Annual City garbage collection service fee for each single-family dwelling, each unit in a duplex dwelling, and each unit in a townhouse development	\$	94.44
Fee for each excess garbage container tag	\$	2.00

SCHEDULE B to BYLAW NO. 7192

FEES FOR CITY RECYCLING SERVICE		
Annual City recycling service fee:		
(a) for residential properties, which receive blue box service (per unit)	\$	47.33
(b) for multi-family dwellings or townhouse developments which receive centralized collection service (per unit)	\$	23.02
Annual recycling service fee for yard and garden trimmings from single-family dwellings and from each unit in a duplex dwelling	\$	37.78
City recycling service fee for the Recycling Depot:		
		\$12.00 per cubic yard for the second and each subsequent cubic yard
(a) (i) for yard and garden trimmings from residential properties		\$0
(ii) for recyclable material from residential properties		\$0
(b) for yard and garden trimmings from non-residential properties		\$12.00 per cubic yard
(c) for recycling materials from non-residential properties		\$0
Annual City recycling service fee for non-residential properties	\$	2.13

SCHEDULE C to BYLAW 7192

FEES FOR CITY LITTER COLLECTION SERVICE		
Annual City litter collection service fee for both residential properties and non-residential properties	\$	12.73

**City of Richmond
Solid Waste and Recycling Regulation Bylaw**

SCHEDULE D to BYLAW NO. 7192

BYLAW YEAR: 2001

NEW RESIDENTIAL PROPERTY PAYMENT FEE SCHEDULE									
Month in Current Year in which Building Permit is Issued		GARBAGE, RECYCLING & LITTER COLLECITON FEE				RECYCLING & LITTER COLLECTION FEE PER STRATA LOT			
		Single-Family Dwellings & Each Unit in a Duplex Dwelling		Townhouse Development		Townhouse Development		Multi-Family Development	
		Protated Fee Per Unit	Year in which Annual Fee Commences	Protated Fee Per Unit	Year in which Annual Fee Commences	Protated Fee Per Unit	Year in which Annual Fee Commences	Protated Fee Per Unit	Year in which Annual Fee Commences
January	2001	\$ 87	2002	\$ -	2002	\$ -	2002	\$ 17	2003
February	2001	\$ 72	2002	\$ 135	2003	\$ 51	2003	\$ 14	2003
March	2001	\$ 58	2002	\$ 122	2003	\$ 46	2003	\$ 12	2003
April	2001	\$ 43	2002	\$ 110	2003	\$ 42	2003	\$ 9	2003
May	2001	\$ 29	2002	\$ 98	2003	\$ 37	2003	\$ 6	2003
June	2001	\$ 14	2002	\$ 86	2003	\$ 33	2003	\$ 3	2003
July	2001	\$ -	2002	\$ 73	2003	\$ 28	2003	\$ -	2003
August	2001	\$ 166	2003	\$ 61	2003	\$ 23	2003	\$ 33	2004
September	2001	\$ 151	2003	\$ 49	2003	\$ 19	2003	\$ 30	2004
October	2001	\$ 136	2003	\$ 37	2003	\$ 14	2003	\$ 27	2004
November	2001	\$ 121	2003	\$ 24	2003	\$ 9	2003	\$ 24	2004
December	2001	\$ 106	2003	\$ 12	2003	\$ 5	2003	\$ 21	2004

CITY OF RICHMOND

BYLAW NO. 7193

CITY OF RICHMOND WATERWORKS
AND WATER RATES BYLAW NO. 5637
AMENDMENT BYLAW NO. 7193 (2001)

The Council of the City of Richmond, in open meeting assembled, enacts as follows:

1. The City of Richmond Waterworks and Water Rates Bylaw No. 5637 is amended by deleting Schedule A, Schedule B, Schedule C, Schedule D, Schedule E and Schedule F, and by substituting Schedule A, Schedule B, Schedule C, Schedule D, Schedule E and Schedule F attached hereto and forming part of this bylaw.
2. This Bylaw may be cited as "**City of Richmond Waterworks and Water Rates Bylaw No. 5637, Amendment Bylaw No. 7193 (2001)**".

FIRST READING

SECOND READING

THIRD READING

ADOPTED

CITY OF RICHMOND
APPROVED for content by originating dept.
APPROVED for legality by Solicitor

MAYOR

CITY CLERK

The City of Richmond Waterworks and Water Rates Bylaw

Bylaw Year: 2001 Schedule B to Bylaw 7193

METERED RATES FOR DOMESTIC, COMMERCIAL AND INDUSTRIAL ESTABLISHMENTS & FACILITIES

All consumption per cubic metre is \$0.4547 per m³
Minimum charge in any quarter of a year is \$51.97
Meter rates as specified in this Schedule shall be charged in addition to the above rates

METER RENTS FOR EACH METER

For a continuous period of 3 months or broken part thereof.

The following shall be the rents charged for a meter or meters supplied for use on any premise.

For a 16mm (5/8") meter	\$ 10.90
For a 20mm (3/4") meter	\$ 13.63
For a 25mm (1") meter	\$ 14.99
For a 32mm (1 1/4") meter	\$ 26.35
For a 40mm (1 1/2") meter	\$ 26.35
For a 50mm (2") meter	\$ 29.75

COMPOUND TYPE

75mm (3")	\$ 100.85
100mm (4")	\$ 154.00
150mm (6")	\$ 255.75

TURBINE TYPE

50mm (2")	\$ 59.05
75mm (3")	\$ 76.10
100mm (4")	\$ 110.16
150mm (6")	\$ 210.32
200mm (8")	\$ 272.56

FIRE LINE TYPE

100mm (4")	\$ 264.34
150mm (6")	\$ 347.74
200mm (8")	\$ 462.62
250mm (10")	\$ 617.12

SCHEDULE C to BYLAW 7193

CLASSIFICATION – FARMS

For a continuous period of 3 months or broken part thereof;

For 1 st quarter billing (January – March inclusive for 90m ³ or less	\$51.97
For 2 nd quarter billing (April – June inclusive) for 95m ³ or less	\$51.97
For 3 rd quarter billing (July – September inclusive) for 140m ³ or less	\$51.97
For 4 th quarter billing (October - December inclusive) for 90m ³ or less	\$51.97

In calculating the charge to be made for water used for the farm, the consumption as shown by the meter or meters added together, less the minimum rate deducted for each quarter as laid down above, shall be calculated at \$0.4267 per m³. This minimum only to be charged where there is a farm dwelling on the property and the minimum charge shall be \$51.97 in any quarter year.

Where there is no dwelling on the property, a straight \$0.4267 per m³ to be charged, and no minimum charge to be made.

Meter rates as specified in Schedule B of this bylaw shall be charged in addition to above rates.

Where there is a house on the property, no meter rent to be charged for connection to one residence regardless of the number of meters on the property.

Where there is no house, meter rent for each meter used.

The City of Richmond Waterworks and Water Rates Bylaw

Bylaw Year: 2001 **Schedule D to Bylaw 7193**

WATER CONNECTION FEES

Water Connection Size	Connection Fee
20mm (3/4") diameter	\$ 1,600
25mm (1") diameter	\$ 2,000
40mm (1 1/2") diameter	\$ 3,000
50mm (2") diameter	\$ 3,900
100mm (4") diameter	\$ 6,500
150mm (6") diameter	\$ 8,500
200mm (8") diameter	\$ 11,000
larger than 200mm (8") diameter	actual cost**

* Connection fees listed applied only where the connecting property is adjacent to City property or right-of-way in which the supply watermain is located. Otherwise the connection fee will be the actual cost of installation.

** Actual cost shall include all appropriate administrative costs. Applicants shall pay a deposit prior to construction equal to the cost estimate provided by the Richmond Public Works Division.

SCHEDULE E to BYLAW 7193

Page 1 of 3

**CONNECTION CHARGES AND CONSTRUCTION USER RATES –
RESIDENTIAL**

The period of construction shall be fixed at:

- 6 months for single and two family residential dwellings;
- 1 year for townhouses and other multi-family dwellings of less than 4 storeys; and
- 18 months for multi-family dwellings of 4 storeys and greater,

and shall commence upon application for water service. Extensions to construction periods may be allowed upon written request to the City Collector.

Every owner making application for water service to any premises capable of connection to a watermain shall, at the time of making such application, pay to the City of Richmond, a connection charge as set out in Schedule D hereof, and user rates as set out below.

Regular billings for water service shall commence in the year as specified on the following page.

The City of Richmond
Waterworks and Water Rates Bylaw

BYLAW YEAR: 2001 Schedule E to Bylaw 7193

2001 WATER RATES FOR NEW CONSTRUCTION

Month		Regular Family Dwelling (rate per unit)	Start Bill Year	Multi-Family Apartment less than 4 storeys (rate per unit)	Start Bill Year	Multi-Family Apartment 4 storeys & up (rate per unit)	Start Bill Year
January	2001	\$ 203	2002	\$ 173	2002	\$ 243	2003
February	2001	\$ 186	2002	\$ 337	2003	\$ 233	2003
March	2001	\$ 169	2002	\$ 322	2003	\$ 222	2003
April	2001	\$ 152	2002	\$ 308	2003	\$ 212	2003
May	2001	\$ 135	2002	\$ 293	2003	\$ 201	2003
June	2001	\$ 118	2002	\$ 279	2003	\$ 191	2003
July	2001	\$ 102	2002	\$ 265	2003	\$ 180	2003
August	2001	\$ 296	2003	\$ 250	2003	\$ 170	2004
September	2001	\$ 279	2003	\$ 236	2003	\$ 159	2004
October	2001	\$ 261	2003	\$ 221	2003	\$ 149	2004
November	2001	\$ 243	2003	\$ 207	2003	\$ 138	2004
December	2001	\$ 226	2003	\$ 193	2003	\$ 128	2004

BYLAW YEAR: 2001 Schedule E to Bylaw 7193

**CONNECTION CHARGES AND CONSTRUCTION USER RATES -
COMMERCIAL AND INDUSTRIAL**

Every owner making application for water service to any premises capable of connection to a watermain shall, at the time of making such application, pay to the City of Richmond, a connection charge as follows:

20mm (3/4") diameter connection	\$ 120
25mm (1") diameter connection	\$ 240
40mm (1 1/2") diameter connection	\$ 600
50mm (2") diameter connection	\$ 1,510

The period of construction shall be fixed at 180 days commencing upon application for water service.

If a meter is installed prior to the completion of the 180 day period, then a pro-rated sum shall be credited to the appropriate account. If a meter is not installed within the 180 day period, then rates and credits shall continue as above for each successive 180 day period until the meter is installed.

The City of Richmond Waterworks and Water Rates Bylaw

BYLAW YEAR: 2001 Schedule F to Bylaw 7193

MISCELLANEOUS CHARGES

- | | |
|--|----------------|
| 1. For an inaccessible meter as set out in Section 7 | \$25 per month |
| 2. For each turn on or turn off | \$35 |
| 3. For each non-emergency service call during non-working hours | \$400 |
| 4. Deposit for testing a meter as set out in Section 26 | \$350 |
| 5. Water Service Disconnections: | |
| (a) when the service pipe is temporarily disconnected at the property line for later use as service to a new building | \$80 |
| (b) when the service pipe is not needed for a future development and must be permanently disconnected at the watermain, up to and including 50mm | \$750 |
| (c) if the service pipe is larger than 50mm | Actual Cost |
| 6. Trouble Shooting on Private Property | Actual Cost |
| 7. Fire flow tests of a watermain: | |
| First test | \$250 |
| Subsequent tests | \$100 |

CITY OF RICHMOND

BYLAW NO. 7194

CITY OF RICHMOND SANITARY SEWER RATES BYLAW NO. 5681
AMENDMENT BYLAW NO. 7194 (2001)

The Council of the City of Richmond, in open meeting assembled, enacts as follows:

1. The City of Richmond Sanitary Sewer Rates Bylaw No. 5681 is amended by deleting Schedule A and by substituting therefore Schedule A attached hereto and forming part of this bylaw.
2. The City of Richmond Sanitary Sewer Rates Bylaw No. 5681 is amended by deleting Schedule C and by substituting therefore Schedule C attached hereto and forming part of this bylaw.
3. This Bylaw may be cited as "**City of Richmond Sanitary Sewer Rates Bylaw No. 5681, Amendment Bylaw No. 7194 (2001)**".

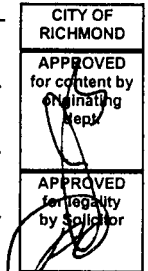
FIRST READING

SECOND READING

THIRD READING

ADOPTED

MAYOR



CITY CLERK

The City of Richmond Sanitary Sewer Rates Bylaw

Bylaw Year: 2001 Schedule A to Bylaw 7194

Rates per year January 1st to December 31st, both inclusive, for service in connection with premises or buildings or for the purpose hereinafter set out, other than charges based on metered water consumption.

FLAT RATES FOR DOMESTIC, BUSINESS AND INSTITUTIONAL PURPOSES

A. Residential Dwellings per unit

Single Occupant with 3/4" water service	\$ 121.00
Dwellings with 3/4 inch water service	\$ 167.32
Dwellings with 1 inch water service	\$ 262.73
Townhouse	\$ 162.24
Apartment	\$ 144.92
Dwellings with larger water service	See metered rates below

B. Public School - per classroom \$ 167.32

C. Shops and Offices - per unit \$ 121.00

METERED RATES FOR DOMESTIC, COMMERCIAL AND INDUSTRIAL ESTABLISHMENTS AND FACILITIES

Rate per m³ - \$ 0.4291

Minimum charge in any quarter of a year - \$39.73

**The City of Richmond
Sanitary Sewer Rates Bylaw**

Bylaw Year: 2001 Schedule C to Bylaw 7194

**2001 SANITARY SEWER RATES FOR NEW CONSTRUCTION
RATE FOR EACH DWELLING**

Month		Regular Family Dwelling (rate per unit)	Start Bill Year	Multi-Family Apartment less than 4 storeys (rate per unit)	Start Bill Year	Multi-Family Apartment 4 storeys & up (rate per unit)	Start Bill Year
January	2001	\$ 75	2002	\$ -	2002	\$ 71	2003
February	2001	\$ 63	2002	\$ 158	2003	\$ 59	2003
March	2001	\$ 50	2002	\$ 144	2003	\$ 47	2003
April	2001	\$ 38	2002	\$ 129	2003	\$ 35	2003
May	2001	\$ 25	2002	\$ 115	2003	\$ 24	2003
June	2001	\$ 13	2002	\$ 101	2003	\$ 12	2003
July	2001	\$ -	2002	\$ 86	2003	\$ -	2003
August	2001	\$ 161	2003	\$ 72	2003	\$ 125	2004
September	2001	\$ 146	2003	\$ 58	2003	\$ 114	2004
October	2001	\$ 132	2003	\$ 43	2003	\$ 102	2004
November	2001	\$ 117	2003	\$ 29	2003	\$ 91	2004
December	2001	\$ 102	2003	\$ 14	2003	\$ 80	2004