



ADMINISTRATIVE REPORT

Report Date: November 21, 2017
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VanRIMS No.: 08-2000-20
Meeting Date: December 6, 2017

TO: Vancouver City Council
FROM: General Manager of Engineering Services
SUBJECT: 2018 Solid Waste Utility (SWU) Fees & By-Law Changes

RECOMMENDATION

- A. THAT Council approve, in principle, the proposed amendments to the Solid Waste By-law, generally as set out in this report and in Appendix A, including the establishment of the 2018 rates and fees.
- B. THAT Council instruct the Director of Legal Services to bring forward for enactment amendments to the Solid Waste By-law to adjust rates and fees and make other miscellaneous related amendments generally in accordance with this report and Appendix B.

REPORT SUMMARY

The purpose of this report is to obtain Council authority to set 2018 solid waste utility rates and tipping fees and amend the Solid Waste By-law.

Solid waste utility rates for 2018 support the garbage, green bin collection and general street cleaning services provided to residents of the City of Vancouver. Garbage rates include the cost of transfer and waste disposal and green bin rates include the cost of transfer and composting of the material collected. For 2018, staff are proposing rate increases ranging from 10.3% to 13.5% for garbage collection and 7.2% to 7.7% for green bin collections. For a representative single-family residence, the total increase works out to 8.5%. Table 1 lists the proposed utility rates for this representative single-family residence.

Table 1 - 2018 Collection Fees for a Representative Single Family Home

| Utility Rates | 2016 | 2017 | % Increase | 2018 Proposed | % Increase |
|----------------------------------|---------------|---------------|-------------|------------------|-------------|
| 180 L Garbage Cart | \$ 103 | \$ 102 | -1.0% | \$ 114 | 11.8% |
| 240 L Green Bin Cart | \$ 140 | \$ 150 | 7.1% | \$ 161 | 7.3% |
| Subtotal | \$ 243 | \$ 252 | 3.7% | \$ 275 | 9.1% |
| Recycling (One Unit + One Stop) | \$ 18 | \$ - | -100.0% | \$ - | 0.0% |
| General Street Cleaning Services | \$ - | \$ 19 | 0.0% | \$ 19 | 0.0% |
| Total | \$ 261 | \$ 271 | 3.8% | \$ 294 | 8.5% |

COUNCIL AUTHORITY/PREVIOUS DECISIONS

On October 17, 2012, Council approved implementation of foods scraps composting including a switch to weekly collection of green bins (mixed yard trimmings and food scraps) and bi-weekly collection of garbage for single-family and duplex homes and the associated rate adjustments.

On November 19, 2013, Council approved entering into a contract with Multi-Material BC (MMBC) for city staff to continue providing recycling services to single and multi-family residences and receive the MMBC financial incentive for the services. The contract came into effect November 30, 2013, with service delivery and incentives starting in May of 2014.

On October 14, 2014, Council enacted by-law amendments requiring all holders of business licenses and owners and occupiers of residential and non-residential properties in Vancouver to have a food waste diversion plan and ensure that food waste is disposed of according to that plan. This change was enacted in order to comply with the Metro Vancouver ban on disposal of these materials at the landfill or incinerator, which came into effect on January 1, 2015.

On November 17, 2015, Council approved terminating the MMBC contract for single family curbside and multi-family collection, and turning over recycling collection to MMBC, as the agency responsible for recycling in the Province, no later than January 2, 2017. Council further directed staff to develop a plan to utilize the savings from the transition of recycling to support expansion of programs focussed on the overall cleanliness of the City.

Solid waste utility rates are set annually to recover the full cost of providing services. Rate increases require Council approval.

REPORT

Background/Context

City of Vancouver's Zero Waste and Resource Recovery System

The City of Vancouver's zero waste and resource recovery services include collection of garbage and green bin materials, and public realm cleanliness; the operation of the Vancouver South Transfer Station ("Transfer Station") and the Vancouver Landfill ("Landfill"), both of which are owned by the City of Vancouver; the operation of recycling depots at both locations; processing contracts for the City collected green bin material; and development of plans and programs to help achieve the City's zero waste goal.

Garbage collected by City crews is delivered to the Vancouver South Transfer Station and then hauled to the Landfill for disposal. Both the Transfer Station and the Landfill receive garbage from the public, commercial haulers and other municipalities; the Landfill also receives garbage from Metro Vancouver's transfer facilities.

Green bin materials collected by City crews are delivered to the Transfer Station, then loaded onto transfer trailers for shipment to local composting facilities. The City has a processing contract in place with Enviro-Smart in Delta.

Financial Implications

The solid waste utility has three distinct areas of service:

1. Collection of Vancouver residential garbage and green bins.
2. Transfer and disposal of garbage and green bin material collected by City forces to the Vancouver Landfill or the contracted organics processing facility respectively.
3. Support for public realm cleanliness programs.

2017 Budget Performance

Table 2 summarizes the operating budget and current forecast for the Solid Waste Collection in 2017.

Table 2 - 2017 Budget Performance - Solid Waste Collection

| Collections (\$ millions) | 2017 Forecast | 2017 Budget | \$ Variance | % Variance |
|--------------------------------------|------------------|----------------|-----------------|----------------|
| Revenues | | | | |
| Annual Flat Fees | \$ 29.1 | \$ 29.0 | \$ 0.1 | 0.2% |
| Total Revenues | \$ 29.1 | \$ 29.0 | \$ 0.1 | 0.2% |
| Expenses | | | | |
| Garbage | \$ 9.3 | \$ 7.2 | \$ (2.1) | -22.4% |
| Garbage Disposal, at Cost | 3.4 | 3.4 | - | 0.0% |
| Compostables | 14.7 | 13.0 | (1.8) | -11.9% |
| General Street Cleaning Service | 5.2 | 5.2 | 0.0 | 0.0% |
| Sanitation Admin | 0.3 | 0.0 | (0.3) | -90.8% |
| Total Expenses | \$ 33.0 | \$ 28.8 | \$ (4.2) | -12.7% |
| Operating Surplus / (Deficit) | (3.9) | 0.2 | (4.1) | -105.9% |
| Transfer to / (from) Reserve | (3.9) | 0.2 | 4.1 | 105.9% |
| Surplus/(Deficit) | \$ - | \$ - | \$ - | 0.0% |

*Tables may not sum due to rounding

Table 3 summarizes the operating budget and current forecast for the Landfill and Transfer Station in 2017.

Table 3 - 2017 Budget Performance - Landfill and Transfer Station

| Disposal (\$ millions) | 2017 Forecast | 2017 Budget | \$ Variance | % Variance |
|--|------------------|----------------|-----------------|---------------|
| Revenues | | | | |
| Tipping Fees | \$ 36.7 | \$ 36.4 | \$ 0.3 | 0.9% |
| Metro and Delta (Surplus Payments) / Cost Recoveries | (4.5) | (4.1) | (0.4) | -8.0% |
| Other | 2.4 | 2.5 | (0.1) | -3.3% |
| Total Revenues | \$ 34.6 | \$ 34.8 | \$ (0.1) | -0.3% |
| Expenses | | | | |
| Transfer Station | 9.0 | 8.8 | (0.2) | -2.4% |
| Less Vancouver residents' prorata share | (2.1) | (2.1) | 0.0 | 0.0% |
| Landfill | 23.4 | 21.8 | (1.7) | -7.1% |
| Less Vancouver residents' prorata share | (1.3) | (1.3) | (0.0) | 0.0% |
| Total Expenses | 29.0 | 27.2 | (1.9) | -6.4% |
| Operating Surplus / (Deficit) | 5.6 | 7.6 | (2.0) | -35.1% |
| Transfer to / (from) Reserve | 5.6 | 7.6 | 2.0 | 35.1% |
| Surplus/(Deficit) | \$ - | \$ - | \$ - | 0.0% |

*Tables may not sum due to rounding

2017 Revenues

Utility revenues are forecasted to be slightly higher than budget for 2017.

2017 Expenditures and Transfers

The 2017 collections over expenditure is due to missed collections and sand removal as a result of the January and February 2017 snow events (approved by Council per Snow Response Update RTS 11883; to be funded through transfer from reserves) and the remainder is from equipment and labour costs to maintain service levels. Equipment and labour costs are key cost drivers of collection operations. City crews perform the majority of garbage and green bin collection services (all single family and approximately 1,300 multi-family buildings). This overage is covered using the Solid Waste Stabilization Reserve, which effectively acts as a rate stabilization fund.

2018 Proposed Budget and Rates

For a representative single-family residence, solid waste utility rates will increase by 8.5% or \$23. The primary drivers of this increase include:

- An increase in contracted costs for receiving and processing green bin organics from approximately \$42 per tonne to \$61;
- Additional funding for Garbage and Green Bin collection to support additional equipment needs to maintain service levels;
- A 3% increase in Metro Vancouver tipping fees for waste disposal;
- Additional disposal costs due to higher quantities of Vancouver residential waste;
- Increased demand for new and replacement collection carts and for changes in cart sizes.

The 2018 proposed budget is summarized in Table 4 and Table 5 with the 2017 budget and forecast for comparison.

Waste disposal operations at the Transfer Station and Vancouver Landfill are forecasted to increase due to the overall increase in waste quantities delivered from Metro Vancouver. The forecasted increase in revenues will offset the increased costs resulting in no net cost or benefit to the City.

Table 4 - Proposed 2018 Budget - Solid Waste Collection

| Collections (\$ millions) | 2017 Forecast | 2017 Budget | 2018 Proposed | \$ Change from 2017 | % Change |
|--------------------------------------|------------------|----------------|------------------|------------------------|--------------|
| Revenues | | | | | |
| Annual Flat Fees | \$ 29.1 | \$ 29.0 | \$ 31.4 | \$ 2.4 | 8.2% |
| Total Revenues | \$ 29.1 | \$ 29.0 | \$ 31.4 | \$ 2.4 | 8.2% |
| Expenses | | | | | |
| Garbage | \$ 9.3 | \$ 7.2 | \$ 7.9 | 0.7 | 10.4% |
| Garbage Disposal, at Cost | 3.4 | 3.4 | 4.0 | 0.6 | 17.4% |
| Green Bin | 14.7 | 13.0 | 14.0 | 1.0 | 7.7% |
| General Street Cleaning Service | 5.2 | 5.2 | 5.3 | 0.1 | 1.6% |
| Sanitation Admin | 0.3 | 0.0 | - | (0.0) | -100.0% |
| Total Expenses | \$ 33.0 | \$ 28.8 | 31.2 | 2.4 | 8.3% |
| Operating Surplus / (Deficit) | (3.9) | 0.2 | 0.2 | (0.0) | -9.4% |
| Transfer to / (from) Reserve | (3.9) | 0.2 | 0.2 | (0.0) | -9.4% |
| Surplus/(Deficit) | \$ - | \$ - | \$ - | \$ - | 0.0% |

**Tables may not sum due to rounding*

Table 5 - Proposed 2018 Budget - Landfill and Transfer Station

| Disposal (\$ millions) | 2017 Forecast | 2017 Budget | 2018 Proposed | \$ Change from 2017 | % Change |
|--|------------------|----------------|------------------|------------------------|---------------|
| Revenues | | | | | |
| Tipping Fees | \$ 36.7 | \$ 36.4 | \$ 38.1 | \$ 1.7 | 4.6% |
| Metro and Delta (Surplus Payments) / Cost Recoveries | (4.5) | (4.1) | (5.6) | (1.5) | -36.0% |
| Other | 2.4 | 2.5 | 2.5 | (0.0) | 0.0% |
| Total Revenues | \$ 34.6 | \$ 34.8 | \$ 35.0 | \$ 0.2 | 0.6% |
| Expenses | | | | | |
| Transfer Station | 9.0 | 8.8 | 9.0 | 0.2 | 2.7% |
| Less Vancouver residents' prorata share | (2.1) | (2.1) | (2.3) | (0.2) | -11.8% |
| Landfill | 23.4 | 21.8 | 23.6 | 1.9 | 8.5% |
| Less Vancouver residents' prorata share | (1.3) | (1.3) | (1.6) | (0.3) | -26.4% |
| Total Expenses | 29.0 | 27.2 | 28.7 | 1.5 | 5.5% |
| Operating Surplus / (Deficit) | 5.6 | 7.6 | 6.3 | (1.3) | -16.9% |
| Transfer to / (from) Reserve | 5.6 | 7.6 | 6.3 | (1.3) | -16.9% |
| Surplus/(Deficit) | \$ - | \$ - | \$ - | \$ - | 0.0% |

**Tables may not sum due to rounding - some of the revenues are grouped in Cost recoveries, grants & donations and Other revenue in the budget book*

2018 Revenues and Proposed Rates

In order to address the pressures described above, utility rates for a representative single-family residence will increase by 8.5%, to \$294 in 2018 from \$271 in 2017.

Five Year Outlook

Table 6 summarizes the five year outlook for the Solid Waste Utility and the following paragraphs discuss the assumptions used.

Table 6 - Solid Waste Utility Five-year Outlook

| Solid Waste Utility (\$ millions) | 2018 | 2019 | 2020 | 2021 | 2022 |
|--|-------------|-------------|-------------|-------------|-------------|
| City Rate Increase | 8.5% | 5.0% | 3.6% | 3.5% | 3.4% |
| Revenues | | | | | |
| Collections | \$ 31.4 | \$ 33.1 | \$ 34.3 | \$ 35.4 | \$ 36.6 |
| Disposal | 35.0 | 40.6 | 41.5 | 42.3 | 43.1 |
| Total Revenues | 66.4 | 73.7 | 75.7 | 77.8 | 79.8 |
| Expenses | | | | | |
| Collections | 31.2 | 32.9 | 34.0 | 35.2 | 36.4 |
| Transfer Station and Landfill | 28.7 | 35.5 | 36.3 | 37.1 | 37.8 |
| Total Expenses | 59.8 | 68.3 | 70.4 | 72.3 | 74.3 |
| Operating Surplus/(Deficit) | 6.5 | 5.3 | 5.3 | 5.4 | 5.5 |
| Transfers | | | | | |
| Transfer to/(from) Reserve (SWCR) | 6.3 | 5.1 | 5.1 | 5.2 | 5.3 |
| Transfer to/(from) Reserve (Collections) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Total Transfers | 6.5 | 5.3 | 5.3 | 5.4 | 5.5 |
| Surplus/(Deficit) After Transfers | \$ - | \$ - | \$ - | \$ - | \$ - |

**Tables may not sum due to rounding - some of the revenues are grouped in Cost recoveries, grants & donations and Other revenue in the budget book*

**2019-2022 numbers were developed based on current levels in advance of the 2019-2022 Capital Plan*

Increases to solid waste rates for a representative single-family residence are expected to range from 2.0% to 8.5% per year (2018 – 8.5%; 2019 – 5.0%; 2020 – 3.6%; 2021 – 2.0%; 2022 - 2.0%). Revenues will increase to accommodate projected increases in Metro Vancouver tipping fees of 3% per year, increases in receiving and processing fees for green bin organics, and maintaining labour and equipment levels to manage service requirements. Any net utility surplus is retained in the Solid Waste Stabilization Reserve. A pilot project to separate materials from the waste stream has just begun at the Landfill. The cost of implementing a large scale Resource Recovery Center has not been included in the 5 year outlook, should that be advanced.

Legal Implications

The Solid Waste By-law requires amendments to address updated utility rates, as well as tipping fees to be charged at the City's transfer station and landfill in order to align with Metro Vancouver's Tipping Fee By-law. The impact of the change in fees is dependent on actual tonnage received.

Recommendation B in this report seeks approval for the Director of Legal Services to bring forward the By-law amendments necessary to address those changes in tipping fees. Proposed tipping fee changes are provided in Appendix A and generally accommodate the following:

- Increasing the tipping fees for solid waste by 3%;
- Increasing the disposal rate for clean wood (Transfer Station), wood waste (Landfill), yard trimmings, and food waste from \$67 to \$70 per tonne to align with operational costs;
- Increasing the disposal rate for demolition waste at the Landfill from \$75 to \$90 per tonne, aligning more closely with market rates while encouraging source separation;

- Increasing the disposal rate for demolition hog at the Landfill from \$30 to \$45 per tonne;
- Increasing the rate for nuisance waste requiring burial at the Landfill (to address safety concerns and minimize negative operational impacts such as odour and litter) from \$200 to \$250 per tonne (\$50 minimum) to align with the regional rate;
- Increasing the rate for used residential drywall at the Landfill from \$150 to \$200 per tonne to align with operational costs and regional rates;
- Increasing the rate for residential asbestos waste at the Landfill from \$133 to \$200 per tonne to align with the rate for used residential drywall (managed identically); and
- Implementing a surcharge of 100% for loads of solid waste containing 20% or more by weight or volume of expanded polystyrene packaging effective July 1, 2018 in line with regional requirements.

Additional non-fee related amendments to align with regional authorities and disposal restrictions include the following:

- Adding authority for the City Engineer to refuse access to the Transfer Station and/or Landfill to any person who does not comply with the By-law;
- Restricting the disposal of toxic plants to the Landfill;
- Adding toxic plants, railroad ties, and creosote treated wood to the list of banned Hazardous and Operational Impact Materials;
- Excluding toxic plants, noxious weeds and snow flocked/frosted trees from the yard waste definition;
- Establishing a new solid waste collection rate for certain group homes that provide a range of support services to residents in need; and
- Serving of notices by email for commercial containers.

CONCLUSION

Based on the budgeted 2017 expenditures, staff recommend that the solid waste utility rates and By-law changes described in this report be adopted for 2018.

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Appendix A
Solid Waste By-Law No. 8417
2018 Rate Changes

| Schedule A | Flat Rate Collection Fees | | |
|--|----------------------------------|--------------------------|-------------------|
| | 2017 | Proposed 2018 | % Increase |
| <u>Garbage (Bi-weekly Collection)</u> | | | |
| Cans: | | | |
| Per stop | \$55 | \$62 | 12.7% |
| Per can | \$26 | \$29 | 11.5% |
| Cart Size: | | | |
| 75 L | \$75 | \$84 | 12.0% |
| 120 L | \$86 | \$96 | 11.6% |
| 180 L | \$102 | \$114 | 11.8% |
| 240 L | \$117 | \$131 | 12.0% |
| 360 L | \$148 | \$165 | 11.5% |
| <u>Garbage (Weekly Collection)</u> | | | |
| Cans: | | | |
| Per stop | \$74 | \$84 | 13.5% |
| Per can | \$29 | \$32 | 10.3% |
| Cart Size: | | | |
| 75 L | \$96 | \$108 | 12.5% |
| 120 L | \$109 | \$122 | 11.9% |
| 180 L | \$126 | \$141 | 11.9% |
| 240 L | \$144 | \$160 | 11.1% |
| 360 L | \$179 | \$198 | 10.6% |
| <u>Green Bin</u> | | | |
| Cart Size: | | | |
| 120 L | \$111 | \$119 | 7.2% |
| 180 L | \$130 | \$140 | 7.7% |
| 240 L | \$150 | \$161 | 7.3% |
| 360 L | \$189 | \$203 | 7.4% |
| <u>Recycling</u> | | | |
| Per cart | \$189 | \$203 | 7.4% |
| <u>General Street Cleaning Service</u> | | | |
| Per dwelling unit | \$19 | \$19 | 0.0% |

Appendix A
Solid Waste By-Law No. 8417
2018 Rate Changes

| Schedule B | Disposal Fees | 2017 | Proposed 2018 | % Increase |
|--|--------------------------|-----------|---------------------------|------------|
| <u>Waste Discharge</u> | | | | |
| Municipal solid waste (MSW) loads < 1 tonne | per tonne | \$133 | \$137 | 3.0% |
| MSW loads 1 - 9 tonnes | per tonne | \$112 | \$115 | 2.7% |
| MSW loads > 9 tonnes | per tonne | \$80 | \$82 | 2.5% |
| MSW - local governments | per tonne | \$100 | \$103 | 3.0% |
| MSW transaction fee | per transaction | \$5 | \$5 | 0.0% |
| Asbestos - residential | per tonne | \$133 | \$200 | 50.4% |
| Asbestos - commercial | per tonne | \$250 | \$250 | N/A |
| Nuisance waste | per tonne | \$200 | \$250 | 25.0% |
| Demo | per tonne | \$75 | \$90 | 20.0% |
| Demo hog | per tonne | \$30 | \$45 | 50.0% |
| Burial charge | per burial | \$250 | \$250 | 0.0% |
| Delta farm waste (MSW, yard trimmings, clean wood waste) | per load, up to 3 tonnes | \$15 | \$15 | 0.0% |
| Foundry slag & sand | per tonne | \$8 | No longer being delivered | N/A |
| <u>Surcharge Rates</u> | | | | |
| Banned product stewardship surcharge | per load | \$65 | \$65 | 0.0% |
| Banned hazardous & operational impact material surcharge | per loads | \$65 | \$65 | 0.0% |
| Banned recyclable materials surcharge | per tonne | MSW + 50% | MSW + 50% | 0.0% |
| Banned expanded polystyrene packaging | per tonne | N/A | MSW + 100% | N/A |
| Unsecured load | per tonne | MSW + 50% | MSW + 50% | N/A |
| <u>Waste Diversion</u> | | | | |
| Yard trimmings | per tonne | \$67 | \$70 | 4.5% |
| Clean wood waste | per tonne | \$67 | \$70 | 4.5% |
| Food waste | per tonne | \$67 | \$70 | 4.5% |
| New Drywall | per tonne | \$150 | \$150 | 0.0% |
| Used Residential Drywall | per tonne | \$150 | \$200 | 33.3% |
| Drywall transaction fee | per transaction | \$5 | \$5 | 0.0% |
| Mattresses | per piece | \$15 | \$15 | 0.0% |
| <u>Goods for Sale</u> | | | | |
| Compost | per tonne | \$16 | \$16 | 0.0% |
| Compost (account customers) | per m3 | \$8 | \$8 | 0.0% |
| | minimum fee | \$5 | \$5 | 0.0% |
| Compost (Delta farmers) | per cubic metre | \$1 | \$1 | 0.0% |

* MSW = municipal solid waste

BY-LAW NO. _____
A By-law to amend
Solid Waste By-law No. 8417
Regarding 2018 fees

THE COUNCIL OF THE CITY OF VANCOUVER, in public meeting, enacts as follows:

1. This By-law amends the indicated provisions of Solid Waste By-law No. 8417.

2. In Section 2, Definitions, Council:

(a) inserts the following definitions in the correct alphabetical order:

“ “Drywall Policy” means the Vancouver South Transfer Station & Vancouver Landfill Drywall Policy in place to meet the requirements of Hazardous Waste Regulation (B.C. Reg. 63/88) and Occupational Health and Safety Regulation (B.C. Reg. 296/97),”

“ “expanded polystyrene packaging” means white expanded polystyrene used for protection and distributing products, but excluding:

- (a) food and beverage containers;
- (b) packaging ‘peanuts’; and
- (c) expanded polystyrene that has been painted, soiled or treated,”

“ “new gypsum (drywall)” means gypsum that is date stamped 1990 or later, has not been previously installed, and does not contain tape, paint or drywall mud,”

“ “noxious weeds” means the weeds designated as noxious weeds in Part I and Part II of Schedule A of the *Weed Control Regulation*, B.C. Reg. 143/2011 but excludes Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*),”

“ “flocked tree” means a natural tree that has been treated or coated with a chemical substance,”

“ “seniors licensed care and group homes” means any commercial property classified as “seniors licensed care” or “group home” on the most recent assessment roll,”

“ “toxic plants” means Devil’s Club (*Oplopanax Horridus*), Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*),”

“ “used gypsum (drywall)” means gypsum that is without a date stamp or is date stamped before 1990, or contains tape, paint or drywall mud,”

“ “residential used gypsum (drywall)” means gypsum transported from a residence by the owner or occupant of that residence”; and

- (b) strikes out the definition of "yard waste" and substitutes:
- "yard waste" includes vegetative trimmings from flowers, house plants, yards, or other landscaped areas consisting only of leaves, grass clipping, plants, small brush, hedge clippings, Christmas Trees, small limbs and dry seed pods but excludes flocked trees, noxious weeds and toxic plants."
3. Council strikes out section 3.1(2) and substitutes:
- "(2) The City Engineer may refuse to provide:
- (i) solid waste services, or
- (ii) access to the city's solid waste facilities,
- to any person who fails to comply with the provisions of this By-law."
4. In section 7.5(a), Council strikes out "city=s" and substitutes "city's".
5. Council strikes out section 8.4 and substitutes:
- "8.4 Materials Banned from the Vancouver Landfill and Transfer Station**
- No person shall dispose of:
- (a) anything described in Schedule E and Schedule G to this By-law;
- (b) a solid waste load that contains more than 5% by weight or by volume of materials listed in Schedule F of this by-law other than expanded polystyrene packaging; or
- (c) a solid waste load that contains more than 20% by weight or by volume of expanded polystyrene packaging
- at either the Vancouver Landfill or the Vancouver South Transfer Station."
6. Council strikes out section 8.5 and substitutes:
- "8.5 Costs of Clean-up and Remediation**
- A person who disposes of any banned material, as described in Schedule E and G or referred to in section 8.4 of this By-law, at the Vancouver Landfill or Vancouver South Transfer Station must pay to the city on demand the city's direct and indirect costs, including lost revenues, of clean-up and remediation resulting from such disposal."
7. In Part XI, Council:
- (a) re-numbers sections 11.4 through 11.6 as 11.5 through 11.7 respectively; and
- (b) strikes out section 11.3 and substitutes:

"11.3 Service of Orders

A notice or order issued under this by-law is sufficiently served if:

- (a) the order or notice is delivered by hand, by ordinary prepaid mail or by registered mail, to the owner or occupier at the applicable address as shown on the assessment roll; or
- (b) in the case of an owner or occupier that is a corporation, the order or notice is delivered by hand, by ordinary prepaid mail, or by registered mail, to the registered and records office of the corporation; or
- (c) the order or notice is delivered by hand, by ordinary prepaid mail or by registered mail, to the address of the user shown on the container as required by section 9.1(2); or
- (d) the order or notice is delivered by hand, ordinary prepaid mail or by registered mail, to the private contractor; or
- (e) in any case, the order or notice is delivered by electronic mail to the electronic mail address of the user or private contractor as shown in a lane permit application for commercial waste or recycling container; or
- (f) if a container is on a street or lane, by posting the notice on the container.

SCHEDULE A

RATES FOR LANDFILL AND TRANSFER STATION

I. Drop-off Rates

The following rates apply to solid waste, yard waste, clean wood waste, wood waste, and new gypsum (drywall) dropped off at the Vancouver Landfill (5400 72nd Street, Corporation of Delta) and the Vancouver South Transfer Station (377 West Kent Avenue North, Vancouver).

Solid waste, yard waste, clean wood waste, wood waste and new gypsum (drywall)

| Type of Waste | Rate | Peak hours minimum charge (from 10:00 a.m. to 2:00 p.m. Monday to Friday, excluding Statutory Holidays) | Non peak hours minimum charge (other than from 10:00 a.m. to 2:00 p.m. Monday to Friday) |
|---|---|---|--|
| Solid waste, other than municipal garbage | \$137/tonne for 0 to 0.99 tonnes to a maximum of \$115 per load \$115/tonne for 1.00 to 8.99 tonnes to a maximum of \$738 per load \$82/tonne for 9.00 or more tonnes | \$20 | \$10 |
| Municipal garbage | \$103/tonne | \$20 | \$10 |
| Yard waste, food waste and clean wood waste | \$70/tonne | \$10 | \$10 |
| Wood waste, but only at Vancouver Landfill | \$70/tonne | \$10 | \$10 |
| New gypsum (drywall), at the Transfer Station | \$5 for up to ½ a sheet (4'x4') | \$5 | \$5 |
| New gypsum (drywall), at | \$150/tonne for up to 0.5 tonne | \$10 | \$10 |

| | | | |
|--------------|--|--|--|
| the Landfill | | | |
|--------------|--|--|--|

All charge rates based on weight are determined by rounding the weight of a load up to the nearest 0.01 tonnes

All non-account charge rates are rounded to the nearest dollar.

Mattresses deposited for recycling \$15/piece

Where any portion of a load consists of recyclable materials which are deposited separately for recycling, and for which there is no drop off rate, for that portion No Charge

A load that contains any combination of materials subject to different disposal rates and the customer chooses not to weigh-out after dropping off each material, the entire load will be subject to the highest rate payable for any part of the load.

The following rates apply to solid waste dropped off at the Vancouver Landfill (5400 72nd Street, Corporation of Delta).

Residential used gypsum (drywall) \$200 per tonne
(\$10 minimum)

Solid waste from Delta Farms that contains less than 5% by weight or by volume of materials listed in Schedule F, and does not contain any materials listed in Schedules E and G \$15 per load for up to 3 tonnes, for up to 5 loads per year

Special handle waste (nuisance waste) requiring burial, as determined by the City Engineer \$250 per tonne
(\$50 minimum)

Burial fee for non-recyclable residuals from regional wastewater treatment plants, in addition to the Burns Bog Rate as defined by the Burns Bog Landfill Agreement between Greater Vancouver Sewerage and Drainage District, City of Vancouver and The Corporation of Delta \$135 per tonne

Demolition materials meeting the City Engineer's specifications for road and infrastructure construction arriving in loads that are greater than 50 cubic metres in volume \$90 per tonne

Demolition hog materials meeting the City Engineer's specifications for surfacing tipping pads and temporary access roads \$45 per tonne

Crushed asphalt and concrete meeting the City Engineer's specifications No Charge

Residential asbestos waste \$200 per tonne
(\$10 minimum)

All other asbestos waste \$250 per tonne
(\$50 minimum)

II. Surcharge Rates

Where any solid waste load disposed of at the Vancouver Landfill or the Vancouver South Transfer Station contains 5% or more by weight or by volume of materials listed in Schedule F, a 50% surcharge will be applied to the load.

Where any solid waste load disposed of at the Vancouver Landfill or the Vancouver South Transfer Station contains 20% or more by weight or by volume of expanded polystyrene packaging, a 100% surcharge will be applied to the load.

The surcharge rates above will be waived for loads of special handle waste received at the Vancouver Landfill.

Where any solid waste load disposed of at the Vancouver Landfill or the Vancouver South Transfer Station contains one or more materials listed in Schedules E and G, a \$65.00 surcharge will be applied to the load plus removal and remediation costs where applicable.

Where any load of solid waste, yard waste, clean wood waste, wood waste and/or recyclable materials is not secured as per the requirements of the *Motor Vehicle Act*, a 50% surcharge shall be applied to the load to a maximum surcharge value of \$50.

Where a single load is subject to multiple surcharges, the surcharge with the highest value will apply for the weight of the entire load.

III. Compost Rates

The following rates apply to the sale of compost produced from yard waste at the Vancouver Landfill Composting Facility at 5400 72nd Street in the Corporation of Delta. Delivery charges are in addition to these rates.

Compost rate \$16 per tonne
(\$5 minimum)

Compost rate, for Delta Farmers \$1 per cubic meter

IV. Transaction fee

In addition to all other charges, a \$5 fee is imposed on all Solid Waste transactions, including mixed loads, nuisance waste loads, asbestos waste loads, and new and residential used gypsum (drywall).

SCHEDULE B

RATES FOR COLLECTION SERVICES

I. Garbage Cart Collection Service

A. Residential Property

The following allocation applies to residential properties:

| Number of Dwelling Units | Minimum Allocated Garbage Volume (per collection period) | Minimum Allocated Garbage Carts (per collection period) |
|--------------------------|--|---|
| 1 unit | 50 litres | 75 litre |
| 2 units | 100 litres | 120 litre |
| 3 units | 150 litres | 180 litre |
| 4 units | 200 litres | 240 litre |
| 5 units | 250 litres | 360 litre |
| 6 units | 300 litres | 360 litre |
| 7 units | 350 litres | 360 litre |
| 8 units | 400 litres | 240 litre, 180 litre |
| 9 units | 450 litres | 240 litre, 240 litre |
| 10 units | 500 litres | 360 litre, 180 litre |
| 11 units | 550 litres | 360 litre, 240 litre |
| 12 units | 600 litres | 360 litre, 240 litre |
| 13 units | 650 litres | 360 litre, 360 litre |
| 14 units | 700 litres | 360 litre, 360 litre |
| 15 units | 750 litres | 360 litre, 240 litre, 180 litre |
| 16 units | 800 litres | 360 litre, 240 litre, 240 litre |
| 16 units | 800 litres | 360 litre, 240 litre, 240 litre |
| 17 units | 850 litres | 360 litre, 360 litre, 180 litre |
| 18 units | 900 litres | 360 litre, 360 litre, 180 litre |
| 19 units | 950 litres | 360 litre, 360 litre, 240 litre |
| 20 units | 1000 litres | 360 litre, 360 litre, 360 litre |
| 21 units | 1050 litres | 360 litre, 360 litre, 360 litre |

B. Garbage Cart Rates

For those properties which receive garbage cart collection service under Part IV - Garbage Service, per calendar year, the following rates are payable concurrently with each year's real property taxes:

| Garbage Cart Size | Biweekly Collection Rate | Weekly Collection Rate |
|-------------------|--------------------------|------------------------|
| 75 litres | \$84 | \$108 |
| 120 litres | \$96 | \$122 |
| 180 litres | \$114 | \$141 |
| 240 litres | \$131 | \$160 |
| 360 litres | \$165 | \$198 |

II. Garbage Can Collection Service

A. Residential Property

The following allocation applies to residential properties:

| Number of Dwelling Units | Allocated Garbage (per collection period) |
|--------------------------|---|
| 1 unit | 2 garbage cans |
| 2 units | 2 garbage cans |
| 3 units | 3 garbage cans |
| 4 units | 3 garbage cans |
| 5 units | 4 garbage cans |
| 6 units | 4 garbage cans |
| 7 units | 5 garbage cans |
| 8 units | 5 garbage cans |
| 9 units | 6 garbage cans |
| 10 units | 6 garbage cans |
| 11 units | 7 garbage cans |
| 12 units | 7 garbage cans |
| 13 units | 8 garbage cans |
| 14 units | 8 garbage cans |
| 15 units | 9 garbage cans |
| 16 units | 9 garbage cans |
| 17 or more units | 10 garbage cans |

B. Garbage Can Rates

For those properties which receive garbage can collection service under Part IV Garbage Service, per calendar year, the following rates are payable concurrently with each year's real property taxes:

| | |
|--------------------------|---------|
| biweekly collection..... | \$62.00 |
| weekly collection..... | \$84.00 |

except for rowhouses which have one or more common collection points, at locations agreed to by the City Engineer, for each collection point where service is provided the following rates are payable:

| | |
|--------------------------|---------|
| biweekly collection..... | \$62.00 |
| weekly collection..... | \$84.00 |

plus for each garbage can allocated or purchased, per calendar year, the following rates are payable concurrently with each years real property taxes:

| | |
|--------------------------|---------|
| biweekly collection..... | \$29.00 |
| weekly collection | \$32.00 |

III. Miscellaneous Service

A. City Sticker Service

Each additional garbage bag with a city sticker affixed to the contents\$2.00

B. Purchase of Additional Garbage Service

Each property owner will be allowed one change per calendar year in the level of service under sections 4.1, 4.2 and 4.3 at no charge. A fee of \$25.00 will be charged for each additional change in that calendar year.

IV. Recycling Collection Service

A. Basic Recycling Rates

For those properties which receive recycling collection service under Part V - Recycling Service, except for seniors licensed care and group homes, per calendar year, the following rates are payable concurrently with each year's real property taxes..... \$203.00 per recycling cart

For seniors licensed care and group homes which receive recycling collection service under Part V - Recycling Service, per calendar year, the following rates are payable concurrently with each year's real property taxes
.....\$67.00 per recycling cart

B. Additional Storage Charges

For those properties which store recycling carts or PPP carts on streets or lanes
..... \$205.00 per cart

V. Green Cart Collection Service

A. Green Cart Rates

For properties which receive green cart collection service under **PART VI - GREEN CART SERVICE**, per calendar year, the following rates are payable concurrently with each year's property taxes

| Size of green cart | Rate |
|--------------------|-------|
| 120 litres | \$119 |
| 180 litres | \$140 |
| 240 litres | \$161 |
| 360 litres | \$203 |

B. Purchase of Additional Green Cart Service

Each property owner will be allowed one change per calendar year in the level of service under this By-law, without charge. A fee of \$25.00 will be charged for

any additional change in that calendar year.

VI. Street Cleaning Services Levy

For each dwelling unit \$19.00

SCHEDULE D

HAZARDOUS AND OPERATIONAL IMPACT MATERIALS BANNED FROM GARBAGE CONTAINERS

1. Refuse that is on fire, smoldering, flammable or explosive.
2. Hazardous Waste as defined in the Hazardous Waste Regulation (B.C. Reg. 63/88), with the exception of asbestos waste delivered to the Vancouver Landfill in accordance with the Asbestos Policy.
3. Propane tanks.
4. Liquids or sludge.
5. Coated or uncoated wire and cable that exceeds either 1% of the total weight of the load or 1% of the total volume of the load.
6. Dead animals.
7. Excrement, other than amounts of pet excrement that are double bagged and discarded with garbage and that do not exceed either 5% of the total weight of the container or 5% of the total volume of the container.
8. Barrels, drums, pails or other large (205 litre or greater) liquid containers, whether full or empty.
9. New or used gypsum (drywall).
10. Mattresses.
11. Any material that would cause undue risk of injury or occupational disease to any person at the Vancouver Landfill and Transfer Station or that would otherwise contravene the Occupational Health and Safety Regulation (B.C. Reg. 296/97) enacted pursuant to the Workers Compensation Act, as amended or replaced from time to time.
12. Any other material which the City Engineer or Medical Health Officer considers hazardous or unsuitable to handle.

SCHEDULE E

HAZARDOUS AND OPERATIONAL IMPACT MATERIALS BANNED FROM THE VANCOUVER LANDFILL AND TRANSFER STATION

The following wastes are prohibited from disposal at the Vancouver Landfill and Vancouver South Transfer Station:

1. Automobile bodies.
2. Refuse that is on fire, smoldering, flammable or explosive.
3. Hazardous Waste as defined in the Hazardous Waste Regulation (B.C. Reg. 63/88), with the exception of asbestos waste delivered to the Vancouver Landfill in accordance with the Asbestos Policy.
4. Propane tanks.
5. Liquids or sludge.
6. Coated or uncoated wire and cable that exceeds either 1% of the total weight of the load or 1% of the total volume of the load.
7. Dead animals from personal or business activities.
8. Inert fill material including soil, sod, gravel, concrete and asphalt exceeding 0.5 cubic metres per load.
9. Excrement, other than amounts of pet excrement that are double bagged and discarded with Municipal Solid Waste and that do not exceed either 5% of the total weight of the load or 5% of the total volume of the load.
10. Barrels, drums, pails or other large (205 litre or greater) liquid containers.
11. New or used gypsum (drywall), with the exception of residential used gypsum (drywall) delivered to the Vancouver Landfill in accordance with the Drywall Policy.
12. Mattresses.
13. Railroad ties or creosote treated wood.
14. Toxic Plants, with the exception of Toxic Plants that are double bagged and delivered in dedicated loads to the Vancouver Landfill for management as special handle waste requiring burial.
15. Personal hygiene products where the personal hygiene products make up more than 10% of the total weight of the load unless the personal hygiene products are double bagged in sealed plastic bags that are sufficiently durable to resist leaking or breaking during collection and disposal.
16. Any material that would cause undue risk of injury or occupational disease to any person at the Vancouver Landfill and Transfer Station or that would otherwise contravene the Occupational Health and Safety Regulation (B.C. Reg. 296/97) enacted pursuant to the Workers Compensation Act, as amended or replaced from time to time.
17. Any other material deemed by the City Engineer as unacceptable for disposal at the Vancouver Landfill or Vancouver South Transfer Station.

SCHEDULE F

RECYCLABLE MATERIALS

1. Beverage containers identified in "Schedule 1 – Beverage Container Product Category" to the *Recycling Regulation* (B.C. Reg. 449/2004) of the *Environmental Management Act*.
2. Containers other than beverage containers made of:
 - i) Metal,
 - ii) Glass, or
 - iii) Plastic identified by the SPI Code #1 (Polyethylene Terephthalate or PET) or SPI Code #2 (High Density Polyethylene or HDPE) or SPI Code #4 (Low Density Polyethylene or LDPE) or SPI Code #5 (Polypropylene or PP).
3. Recyclable Paper.
4. Corrugated Cardboard.
5. Yard Waste.
6. Food Waste.
7. Clean Wood Waste.

SCHEDULE G
PRODUCT STEWARDSHIP MATERIALS

The following materials included in the effective Product Stewardship Program product categories of the *Recycling Regulation* of the *Environmental Management Act*, are banned from garbage containers, and from disposal as garbage at the Vancouver South Transfer Station, and Vancouver Landfill:

1. The following materials pursuant to Schedule 2 - Residual Product Category to the *Recycling Regulation*:
 - i) Solvents and flammable liquids,
 - ii) Pesticides,
 - iii) Gasoline,
 - iv) Pharmaceutical products and medications,
 - v) Oil, oil filters and oil containers,
 - vi) Paint,
 - vii) Lead-acid batteries, and
 - viii) Antifreeze and antifreeze containers.
2. Electronics and electrical products, including metal household and commercial appliance, as identified in Schedule 3 - Electronics and Electrical Products Category to the *Recycling Regulation*.
3. Tires pursuant to Schedule 4 - Tire Product Category to the *Recycling Regulation*.