McDermott moved Striking Amendment S1 The motion carried.

9-1-20222024 RestructureImplementation



mprementation		
	Sponsor:	Balducci
[T. Rose]	Proposed No.:	2022-0236
STRIKING AMENDMENT TO) PROPOSED (ORDINANCE 2022-0236, VERSION
1		
On page 1, beginning on line 6, st	trike everything t	hrough page 13, line 261, and insert:
"STATEMENT OF FACT	[S:	
1. The solid waste divisio	on of the departm	ent of natural resources and
parks provides essential p	ublic services that	t protect human health, the
environment, and the qual	environment, and the quality of life in our region.	
2. The solid waste divisio	2. The solid waste division operates the Cedar Hills regional landfill,	
eight transfer stations and	eight transfer stations and two drop boxes. It also provides innovative	
programs to help custome	programs to help customers prevent and recycle waste.	
3. Ordinance 19413, enac	3. Ordinance 19413, enacted March 31, 2022, proposed a new fee	
structure for disposal at so	olid waste faciliti	es. However, the effective date
of that ordinance was dela	yed approximate	ly ten months so that the new
fee structure and fee schee	lules would go in	nto effect January 1, 2023.
4. The new fee restructure	e was based on re	ecommendations made in a rate
study prepared by the FCS	S Group. As set t	forth in Ordinance 19413, the
new fee structure would a	dd a fixed-annua	l charge component to be paid

18 by billing entities as defined in Ordinance 19413.

KING COUNTY COUNCIL GREEN FOLDER SEPTEMBER 13, 2022

19	5. At the August 19, 2022, Solid Waste Advisory Committee ("SWAC")
20	meeting, the committee unanimously supported a motion, proposed by
21	committee members who also serve on the Metropolitan Solid Waste
22	Advisory Committee, to request the county delay for one year the new fee
23	structure set out in Ordinance 19413. SWAC communicated this request
24	to the county in a August 22, 2022, letter. According to SWAC's letter,
25	both advisory committees support the new fee restructure. Also according
26	to the SWAC letter, the delay of one year would allow the 37 King County
27	cities and their respective partner collections service providers to negotiate
28	changes in their contracts to account for the new fee structure.
29	6. In accordance with SWAC's request, this ordinance will delay the
30	effective date of the new fee structure, including the fixed-annual charge,
31	to January 1, 2024. However, a delay in the implementation of the new
32	fee structure requires extending the status quo fee structure through 2023.
33	7. Also, a consequence of delaying implementation of the new fee
34	structure requires that the expected revenue from the anticipated fixed-
35	annual charge be reallocated in the status quo fee structure for 2023.
36	8. Based on the current 2022 fee schedules, the fee schedules proposed in
37	this ordinance will result in an increase for the average single-family
38	household with garbage collection of approximately seventy-nine cents
39	per month in 2023 and ninety cents per month in 2024.
40	9. This ordinance amends the service fees charged for solid waste
41	disposal at county transfer facilities and at the Cedar Hills regional

3

42	landfill. The fees are established and imposed under RCW 36.58.040,
43	RCW 70A.200.070 and K.C.C. 10.12.021. The fees proposed for 2023
44	and 2024 will enable the solid waste division of the department of natural
45	resources and parks to maintain essential solid waste disposal and
46	recycling services and generate the revenue needed to carry out
47	programmatic responsibilities required under adopted policies.
48	Attachment A to this ordinance provides the analytical basis for the
49	proposed fee schedules in 2023 and 2024.
50	BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:
51	SECTION 1. Ordinance 19413, Section 3, is hereby repealed.
52	SECTION 2. Ordinance 19413, Section 4, is hereby amended as follows:
53	((This o))Ordinance 19413, Sections 1 and 2, take((s)) effect January 1, ((2023))
54	<u>2024</u> .
55	SECTION 3. Section 4 of this ordinance takes effect January 1, 2023.
56	SECTION 4. Ordinance 12564, Section 2, as amended, and K.C.C.10.12.021 are
57	hereby amended as follows:
58	Except as otherwise provided in K.C.C. 10.12.058, all persons using county-
59	operated solid waste transfer stations and drop boxes shall pay the service fees in the
60	following schedules:
61	A. Fees for the use of solid waste facilities with scales, excluding Cedar Hills,
62	shall be:
63	1. Solid waste disposal:
64	Fixed-rate vehicles ((\$24.64)) <u>\$26.98</u> per

65		entry
66	Per-ton-rate vehicles	((\$154.02)) <u>\$168.68</u>
67		per ton
68	Charitable organizations	((\$118.60)) <u>\$129.88</u>
69		per ton
70	Minimum	((\$24.64)) <u>\$26.98</u> per
71		vehicle
72	Charitable organizations, minimum charge	((\$18.89)) <u>\$20.78</u> per
73		entry
74	2. Deposit of source-separated yard waste, clean wood	waste, or any
75	combination thereof:	
76	Fixed-rate vehicles	((\$16.00)) <u>\$18.00</u> per
77		entry
78	Per-ton-rate vehicles	((\$100.00)) <u>\$115.00</u>
79		per ton
80	Minimum charge	((\$16.00)) <u>\$18.00</u> per
81		vehicle
82	3. Deposit of major appliances:	
83	Major appliances with refrigerants	\$30.00 per unit
84	4. Deposit of mattresses:	
85	Mattresses	\$30.00 per unit; and
86	5. Qualified low-income customers shall receive fee dis	scounts of ((\$14.00))
87	\$15.00 per entry for deposit of solid waste, yard waste, clean wo	od waste, appliances and

88	mattresses. Customers with mixed loads must separate and deposit materials with	
89	sequential visits to the scale house to receive a discount on the individual waste types.	
90	B. Fees for the use of solid waste facilities without scales shall be based upon the	
91	cubic yard or fraction thereof as follows:	
92	1. Solid waste disposal:	
93	Fixed-rate vehicles	((\$24.64)) <u>\$26.98</u> per
94		entry
95	Per-ton-rate vehicles:	
96	Compacted wastes	((\$44.67)) <u>\$48.92</u> per
97		cubic yard
98	Uncompacted wastes	((\$26.18)) <u>\$28.68</u> per
99		cubic yard
100	Minimum charge	((\$24.64)) <u>\$26.98</u> per
101		vehicle
102	2. Deposit of source-separated yard waste, clean v	vood waste or any
103	combination thereof:	
104	Fixed-rate vehicles	((\$16.00)) <u>\$18.00</u> per
105		entry
106	Per-ton-rate vehicles:	
107	Compacted wastes	((\$29.00)) <u>\$33.35</u> per
108		cubic yard
109	Uncompacted wastes	((\$17.00)) <u>\$19.55</u> per
110		cubic yard

111	Minimum charge	((\$16.00)) <u>\$18.00</u> per
112		vehicle
113	3. Qualified low-income customers shall receive	e fee discounts of ((\$14.00))
114	\$15.00 per entry for deposit of solid waste, yard waste, cl	ean wood waste, appliances and
115	mattresses. Customers with mixed loads must separate a	nd deposit materials with
116	sequential visits to the scale house to receive a discount of	n the individual waste types.
117	C. Fees at the Cedar Hills regional landfill shall b	be:
118	Cedar Hills Regional Direct	((\$131.00)) <u>\$143.00</u>
119		per ton
120	Per-ton-rate	((\$154.02)) <u>\$168.68</u>
121	vehicles	per ton
122	Per-ton-mattress	\$1,090.00 per ton
123	Disposal by other vehicles is at the discretion of the division director.	
124	D. A moderate-risk waste surcharge shall be adde	ed to all solid waste disposed by
125	nonsolid waste collection entities using county operated s	solid waste facilities. The fee
126	schedule is as follows:	
127	1. For facilities with scales:	
128	Per-ton-rate vehicles	\$5.84 per ton
129	Minimum charge	\$2.23 per entry
130	Fixed-rate vehicles	\$2.23 per entry
131	2. For facilities without scales:	
132	Compacted	\$1.28 per cubic yard
133	Uncompacted	\$0.73 per cubic yard

134	Minimum charge	\$2.23 per entry
135	Fixed-rate vehicles	\$2.23 per entry
136	E. As determined by the division director, a special waste fee shall be charged for	
137	special waste including asbestos-containing waste material and ot	her wastes requiring
138	clearances in accordance with King County Board of Health Code	e Title 10 or rules
139	adopted by the department. The fee schedule is as follows:	
140	Special waste fee	((\$185.00)) <u>\$203.00</u>
141		per ton
142	Special waste fee minimum charge	((\$29.60)) <u>\$32.48</u> per
143		entry
144	Special waste fee, extra handling	((\$216.00)) <u>\$236.00</u>
145		per ton
146	Special waste fee, extra handling	
147	minimum charge	((\$34.56)) <u>\$37.76</u> per
148		entry
149	F. In the absence of exact weights or measurements, the e	estimate by the division
150	director is binding upon the user.	
151	G. The division director may establish fees for handling a	nd processing of
152	recyclable materials for which no other fee has been established by ordinance. The fees	
153	need not recover the full cost of handling and processing.	
154	SECTION 5. Section 6 of this ordinance takes effect January 1, 2024.	
155	SECTION 6. Ordinance 12564, Section 2, as amended, an	nd K.C.C.10.12.021 are
156	hereby amended as follows:	

8

157	Except as otherwise provided in K.C.C. 10.04.020 and 10.12.058, all persons	
158	using county-operated solid waste transfer stations ((and)), drop boxes and Cedar Hills	
159	regional landfill shall pay the service fees in the following schedules:	
160	A. Fees for the use of solid waste facilities with scales, excluding Cedar Hills,	
161	shall be:	
162	1. Solid waste disposal:	
163	Fixed-rate vehicles	((\$26.98)) <u>\$29.65</u> per
164		entry
165	Solid waste collection entity ((P))per-ton-rate	
166	vehicles	((\$168.68)) <u>\$150.83</u>
167		per ton
168	Self-hauler per-ton-rate vehicles	<u>\$185.28</u>
169		per ton
170	Charitable organizations	((\$129.88)) <u>\$142.67</u>
171		per ton
172	Minimum	((\$26.98)) <u>\$29.65</u> per
173		vehicle
174	Charitable organizations, minimum charge	((\$20.78)) <u>\$22.83</u> per
175		entry
176	2. Deposit of source-separated yard waste, clean wood w	vaste, or any
177	combination thereof:	
178	Fixed-rate vehicles	\$18.00 per entry
179	Per-ton-rate vehicles	\$115.00 per ton

180	Minimum charge \$18.00 per vehicle
181	3. Deposit of major appliances:
182	Major appliances with refrigerants \$30.00 per unit
183	4. Deposit of mattresses:
184	Mattresses \$30.00 per unit; and
185	5. Qualified low-income customers shall receive fee discounts of $((\$15.00))$
186	\$16.00 per entry for deposit of solid waste, yard waste, clean wood waste appliances and
187	mattresses. Customers with mixed loads must separate and deposit materials with
188	sequential visits to the scale house to receive a discount on the individual waste types.
189	B. Each billing entity in the solid waste system will pay a share of the fixed-
190	annual charge. The share each billing entity pays, for each service area it serves, is
191	directly proportional to the total tons of municipal solid waste deposited by solid waste
192	collection entities at county-operated solid waste facilities in the most recent calendar
193	year for which data is available, as shown in the following formula:
194	<u>1. W = X * (Y / Z), where:</u>
195	a. W is the billing entity's share in dollars of the fixed-annual charge for a
196	specific service area;
197	b. X is the total amount of the fixed-annual charge for the calendar year;
198	c. Y is the number of tons of municipal solid waste from a specific service area
199	of the billing entity that is deposited at county-operated solid waste facilities in the most
200	recent calendar year for which data is available; and

201	d. Z is the total number of tons of municipal solid waste	e from all service areas
202	deposited at county-operated solid waste facilities by all solid waste collection entities in	
203	the most recent calendar year for which data is available, excluding regional direct tons.	
204	2. Beginning January 1, 2024, the fixed-annual charge is	\$22,614,181.
205	\underline{C} . Fees for the use of solid waste facilities without scales shall be based upon the	
206	cubic yard or fraction thereof as follows:	
207	1. Solid waste disposal:	
208	Fixed-rate vehicles	((\$26.98)) <u>\$29.65</u> per
209		entry
210	Per-ton-rate vehicles:	
211	Compacted wastes	((\$48.92)) <u>\$53.73</u> per
212		cubic yard
213	Uncompacted wastes	((\$28.68)) <u>\$31.50</u> per
214		cubic yard
215	Minimum charge	((\$26.98)) <u>\$29.65</u> per
216		vehicle
217	2. Deposit of source-separated yard waste, clean wood w	vaste or any
218	combination thereof:	
219	Fixed-rate vehicles	\$18.00 per entry
220	Per-ton-rate vehicles:	
221	Compacted wastes	\$33.35 per cubic yard
222	Uncompacted wastes	\$19.55 per cubic yard
223	Minimum charge	\$18.00 per vehicle

224	3. Qualified low-income customers shall receive fee discounts of $((\$15.00))$		
225	\$16.00 per entry for deposit of solid waste, yard waste, clean wood waste, appliances and		
226	mattresses. Customers with mixed loads must separate and	deposit materials with	
227	sequential visits to the scale house to receive a discount on	the individual waste types.	
228	((C.)) <u>D</u> . Fees at the Cedar Hills regional landfill shall be:		
229	Cedar Hills Regional Direct	((\$143.00)) <u>\$157.00</u>	
230		per ton	
231	Solid waste collection entity ((P))per-ton-rat	te $((\$168.68))$ $\$150.83$	
232	vehicles	per ton	
233	Per-ton-mattress	\$1,090.00 per ton	
234	Disposal by other vehicles is at the discretion of the division director.		
235	$((D_{\cdot}))$ <u>E</u> . A moderate-risk waste surcharge shall be added to all solid waste		
236	disposed by nonsolid waste collection entities using county operated solid waste		
237	facilities. The fee schedule is as follows:		
238	1. For facilities with scales:		
239	Per-ton-rate vehicles	\$5.84 per ton	
240	Minimum charge	\$2.23 per entry	
241	Fixed-rate vehicles	\$2.23 per entry	
242	2. For facilities without scales:		
243	Compacted	\$1.28 per cubic yard	
244	Uncompacted	\$0.73 per cubic yard	
245	Minimum charge	\$2.23 per entry	
246	Fixed-rate vehicles	\$2.23 per entry	

247	((E.)) <u>F.</u> As determined by the division director, a special waste fee shall be		
248	charged for special waste including asbestos-containing waste material and other wastes		
249	requiring clearances in accordance with King County Board of Health Code Title 10 or		
250	rules adopted by the department. The fee schedule is as follows:		
251	Special waste fee	((\$203.00)) <u>\$223.00</u>	
252		per ton	
253	Special waste fee minimum charge	((\$32.48)) <u>\$35.68</u> per	
254		entry	
255	Special waste fee, extra handling	((\$236.00)) <u>\$259.00</u>	
256		per ton	
257	Special waste fee, extra handling		
258	minimum charge	((\$37.76)) <u>\$41.44</u> per	
259		entry	
260	((F.)) <u>G.</u> In the absence of exact weights or measurements	, the estimate by the	
261	division director is binding upon the user.		
262	((G.)) <u>H.</u> The division director may establish fees for hand	lling and processing of	

- 263 recyclable materials for which no other fee has been established by ordinance. The fees
- 264 need not recover the full cost of handling and processing."

265

- 266 Strike Attachment A, Proposed Solid Waste Disposal Fees for 2023 and 2024, and insert
- 267 Attachment A, Updated Proposed Solid Waste Disposal Fees for 2023 and 2024, dated
- 268 September 7, 2022.
- 269
- 270 **EFFECT prepared by T. Rose:**

271

272 Striking Amendment S1 would delay implementation of the solid waste fee

273 restructure adopted by Ord. 19413 such that the restructure would go into effect on

January 1, 2024 instead of January 1, 2023. To effectuate this delay and capture

275 revenue that would have been collected under the fixed-annual charge of the fee

276 restructure, Striking Amendment S1 would update the proposed 2023 fee amounts

using the status quo fee structure. Proposed fees for 2024 are unchanged in the

278 striking amendment relative to the transmittal.

Updated Proposed Solid Waste Disposal Fees for 2023 and 2024

June 2022 updated September 2023



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Proposed Solid Waste Disposal Fees for 2023-2024 P a g e \mid 2

II. Executive Summary

The Department of Natural Resources and Parks (DNRP) is proposing to increase its solid waste revenue requirement by 9.6 percent in 2023 and 9.6 percent in 2024.¹ These percentage increases are necessary due to increases in the overall costs to provide solid waste services, including recycling and waste disposal services at transfer stations, continued operations at the Cedar Hills Regional Landfill (CHRLF), and recycling and waste-prevention programs. Historically and in 2023, rate increases have been shown in terms of percent increase in the basic fee since most of the solid waste revenue has been based on that fee. However, beginning in 2024 the solid waste revenue requirements will be collected through a new rate structure which contains both a fixed-annual charge and a per tonnage fee. The impact of this increase for a typical residential customer, after commercial haulers pass along these costs, is forecasted to be \$0.79 per month in 2023 and \$0.90 in 2024.

The rate changes associated with this proposed revenue requirement increase are needed to sustain current essential services.

Thirty-seven partner cities and 1.5 million people depend on these disposal services. The proposed increase also provides for investments necessary to achieve the goals contained in the 2019 <u>Comprehensive Solid Waste Management Plan</u> (Comp Plan) and the 2020 King County Strategic Climate <u>Action Plan (SCAP)</u>. This increase will allow DNRP to continue the services and programs customers have come to expect and rely on, and that have helped this region become one of the best for recycling in the nation.

DNRP has entered a period of significant capital investment that will last several biennia and reorient the future outlook from a waste management perspective to a materials management leadership perspective. This proposed rate increase would support DNRP making an estimated investment of \$770 million for critical infrastructure projects between now and 2028. These investments will yield long-term financial benefits for rate payers, boost the local economy, and reduce the impact of waste on the environment. The department is also investing in its Re+ Plan, which will divert or recycle the 70 percent of useful materials that are currently being thrown away.² King County's goal is to achieve zero waste by 2030, which will provide significant environmental and financial benefit to the region. This proposed rate increase funds these key initiatives while also positioning the department to maintain a smooth and steady rate path in future years, as requested by partner cities.

The overarching goal of the fiscal planning work for this 2023-2024 rate proposal has been to maximize value for customers while mitigating financial impacts on rate payers. This rate proposal follows months of partner engagement that began in January 2022. The department's advisory committees—the Metropolitan Solid Waste Management Advisory Committee (MSWMAC) and Solid Waste Advisory Committee (SWAC)—expressed support of a rate increase that would allow the department to maintain current service levels, fund key investments in climate and environmental programs, and fulfill the commitments made in the Comp Plan.³

¹ The <u>FCS Group report</u> defines this as the total revenue required to fully fund solid waste services on a standalone basis and includes operating and maintenance expenditures, capital funding needs, and fiscal policy objectives. ² Additional information about Re+ can be found on the County's <u>Re+ website</u>.

³ More information about the advisory committees can be found here [LINK] and the Comp Plan can be found here [LINK].

The proposed increases for 2023 and 2024 are in line with projections from the 2022 Rate Proposal and are needed to meet the department's commitments to regional partners, to successfully implement actions in the Comp Plan and SCAP and fulfill the mandate to maintain essential services.

III. Background

Department Overview: The King County Department of Natural Resources and Parks (DNRP) works in support of sustainable and livable communities and a clean and healthy natural environment. Its mission is to foster environmental stewardship and strengthen communities by providing regional parks, protecting the region's water, air, land, and natural habitats, and reducing, safely disposing of, and creating resources from wastewater and solid waste.

DNRP's Solid Waste Division (SWD) is guided by its vision to achieve zero waste of resources and enhance the environment through collaboration and innovation.⁴ The department operates eight transfer stations, two rural drop boxes, and the Cedar Hills Regional Landfill (CHRLF) which is the only operational landfill in the county. DNRP serves residents and business owners in unincorporated King County and 37 cities throughout the county, except the cities of Seattle and Milton, which are part of separate solid waste systems. The department's solid waste mission is to "deliver value to its customers and stakeholders, and to continuously improve waste prevention, resource recovery, and waste disposal."⁵ The DNRP solid waste rate supports ongoing services and operations as well as new investments in solid waste infrastructure and capital projects to serve its customers.

Key Historical Context: Historically, DNRP has operated over long periods of time with no rate increase for solid waste disposal as shown in Figure 1, below. Implemented rate increases have typically ranged between 5 percent and 15 percent. During development of the 2019-2020 solid waste rate, interested parties and partner cities requested that DNRP take a more incremental approach to rate setting, to create a more predictable path for rate increases. This preference was reiterated in the current round of rate proposal discussions for the 2023 rate.

The primary drivers of the increased costs of services provided at stations are the financial needs of capital projects, inflation, and the ongoing cost to meet environmental and safety controls at the CHRLF and the closed landfill properties managed by the County.

Figure 1 shows the history of basic fee rate increases since 2008, along with the proposed increases for 2023-2024 and projections through 2028. By staggering rate increases over one-year increments, increases are more gradual over time. This avoids a single large rate increase over the biennium or several biennia. Figure 1 shows that the projected rate increases after 2022 are expected to be greater than typical annual increases due to continued implementation of major capital projects approved of in the Comp Plan, such as building the South County Recycling and Transfer Station (SCRTS), building the

⁴ DNRP has rebranded these <u>zero waste of resources efforts as Re+</u>.

⁵ Solid Waste Division vision statement [LINK]

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | 4

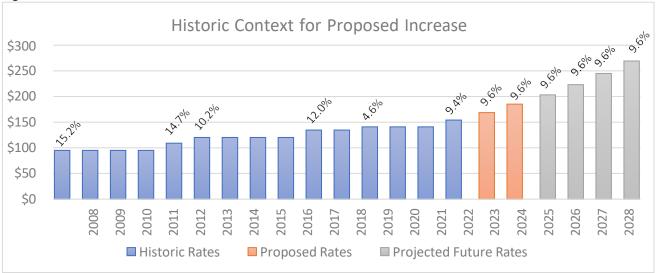


Figure 1: 20-Year Overview of Rate Increases⁶

Northeast Recycling and Transfer Station (NERTS), and developing Area 9 at the CHRLF.⁷ SCRTS, NERTS, and extending the life of the landfill (the County's least costly garbage disposal option) were approved by the cities through the Comp Plan adoption process. While these investments carry significant costs, they remain popular with the MSWAC and SWAC. The MSWAC and SWAC have provided letters of support which accompany this proposal.

Key Current Context: Starting in 2024, the way disposal fees are charged to commercial haulers will change. Instead of the basic fee, commercial haulers will pay a commercial tip fee (per-ton) and a fixed-annual charge (FAC). The commercial fee and FAC together are designed to collect the same amount of revenue as the basic fee does by itself, but since the FAC is a fixed value that does not vary based on tonnage, it is a more stable revenue stream. The FAC was originally planned to go into effect on January 1, 2023. However, waste haulers and King County cities have requested additional time to negotiate necessary contract changes with each other to better manage this new fee structure. As a result, the County is proposing delaying the implementation of the rate restructure for one year (to start January 1, 2024).

The restructure of commercial revenues creates a challenge when comparing pre-restructure rates to the new format. To do so, the following table uses the 2024 rate and commercial tonnage to show how the new restructured commercial tip fee and the FAC can be combined to create a rate value called the composite commercial rate (CCR), which can then be compared directly with the pre-restructure basic fee. The CCR is used solely to facilitate equal comparisons between pre-restructure rates with rates under the new structure; it is not for billing customers.

⁶ Historically, the rate increase percentage shown represents a change in the basic fee. From 2023 and beyond, due to the revised rate structure (which will take effect in 2024), the percentage increase shown represents an increase in the overall revenue requirement, not only the basic fee.

⁷ Area 9 is the capital project which will develop a new and final waste cell at the landfill. This project is expected to add eight years of useful life to the landfill.

Table 1: creating the centrol comparison with the pre-restructure basic rec							
Step 1: Find the Commercial Fee and Fixed Charge Values							
2024 Under Current Rate	Structure	2024 Under New Rate Rest	ructure				
Basic Fee \$ 185.27		Restructured Commercial Tip Fee	\$ 150.83				
Fixed Annual Charge (FAC)	None	Fixed Annual Charge (FAC)	\$ 22,614,181				

Table 1: Creating the CCR for comparison with the pre-restructure basic fee

Step 2: Convert the New Fixed Annual Charge into a Per-Ton Equivalent ⁸							
Commercial Tons	656,580	Commercial Tons	656,580				
FAC / Commercial Ton	N/A	FAC / Commercial Ton	\$ 34.44				

Step 3: Add FAC Per-Ton Equivalent to Restructured Commercial Tipping Fee							
Basic Fee \$ 185.27 Composite Commercial Rate (CCR) \$ 1							

Re+, Tonnage, and Rates

As outlined by <u>King County Code 10.14.020</u>, it is King County's goal to "achieve zero waste of resources by 2030 through maximum feasible and cost-effective prevention, reuse, and reduction of solid wastes going into its landfills and other processing facilities." In late 2022, DNRP will publish the Re+ Plan, which will outline the primary actions the County and other partners (cities, haulers, businesses, etc.) will take to achieve the zero waste of resources goal. However, successful implementation of this plan over the next 10 years could significantly reduce landfill-bound municipal solid waste (MSW) tons and its associated revenue, meaning rates will need to increase.

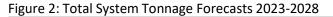
Figure 2, below, shows two forecasts for total municipal solid waste (in thousands of tons) that the County anticipates would be generated over the next three biennia. The status quo forecast assumes no Re+ actions are taken, while the Re+ moderate forecast shows significant diversion of MSW. The Re+ forecast includes commercial food waste diversion resulting from the recently passed statewide organics legislation (HB 1799 – 2021-22), expanded recycling efforts at transfer stations, and new sorting technologies (all part of Re+). These estimates are based on an examination of the 2019 King County Waste Characterization and Customer Survey Report, comparisons with historical DNRP efforts and similar programs in other jurisdictions, and consultant studies.

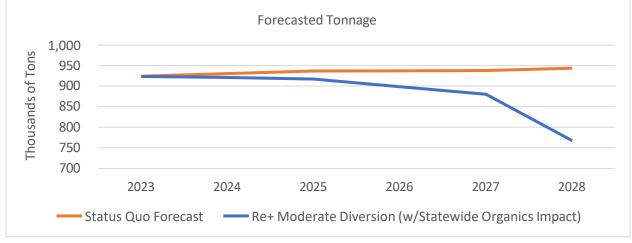
Economic Circumstances

The local economy has a twofold impact on the Department's solid waste services. When the local economy is doing well, consumption tends to increase, which drives up the amount of waste coming to transfer stations. The opposite is true during economic downturns. The local economy also affects the cost of the services provided. Inflation and high demand in the building sector can drive up the cost of operating the system and repairing and replacing aging infrastructure. As the COVID-19 pandemic enters its third year, the economic conditions in the region remain fluid. The pandemic recovery has been accompanied by rising inflation rates and ongoing supply chain disruptions. These two forces, combined

⁸ This calculation is the FAC / Commercial Tons so \$22,614,181 / 656,580 = \$34.44 per ton.

with permitting delays, have slowed progress on some capital projects and increased costs for most of them. Furthermore, the war in Ukraine continues to contribute to uncertainty about food and fuel prices, which may affect the amount of waste moving through the system.





Report Methodology: DNRP gathered data from various internal and external systems, including from the cashiering system (Paradigm) used at solid waste facilities for tonnage and revenue information, King County accounting and budget systems (Oracle) for expenditure information, and the PRISM database, which provides expenditure forecasts for capital projects. Ideas and additional information were gathered through internal DNRP collaborations and from various partners. Briefings with the DNRP solid waste advisory committees—the Municipal Solid Waste Advisory Committee (MSWAC) and the Solid Waste Advisory Committee (SWAC)—started in December 2021 and continued monthly through development of this proposal. The committees provided input on a variety of topics, including communications, rate options, and service levels. Letters of support from the MSWAC and SWAC are included in this legislative package. This proposal was also developed with input and direction from the County's Office of Performance, Strategy and Budget.

The methodology used in formulating the rate proposal is explained in detail below.

IV. Report Requirements

A. Rate Model Methodology

Revenue generated by the rates charged supports all of the services provided by the Solid Waste Division, including:

- The garbage (MSW) transfer system
- Disposal of MSW and Special Waste at the Cedar Hills Regional Landfill
- Recycling and yard waste collection at most transfer stations
- Hazardous and moderate-risk waste collection (at transfer stations)
- Waste reduction programs
- Education and outreach

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | 7

Disposal fees comprise 90 percent of revenue to the Solid Waste Fund. Starting in 2024 three variables will drive the revenue received from disposal fees: 1) the FAC, 2) tonnage, and 3) tipping fees charged for tonnage. When tonnage decreases, revenue is reduced. Revenue, generated by the rates must align with costs to ensure services are available for customers and jurisdictions.

First, the cost to provide services is determined (this is also referred to as the revenue target, revenue requirement, or expenditures) by analyzing SWD's spending patterns, updating assumptions about inflation, reviewing proposals for budget adds and reductions, identifying the level of reserve cash to maintain each year, and examining a host of other factors that play into the cost of solid waste services.⁹

Next, the amount of the FAC must be determined. This is done through a cost-of-service analysis at the customer class level. A customer class is "a grouping of solid waste customers with similar usage characteristics who are served at similar costs."¹⁰ The cost-of-service analysis looks at the cost to provide services to each customer class, including both disposal and non-disposal related costs.

For example, to provide disposal service to commercial haulers, the county employs scale house and transfer station operators, drivers, mechanics, and landfill crews, as well as builds, operates, and maintains transfer stations and the landfill. A portion of each of these costs is allocated to each of the customer classes based on their usage of that resource (usually determined by the number of tons or transactions a class generates).

Non-disposal costs include expenses such as administration, regional planning, Re+ actions, and regulatory compliance. The FAC, will be based on the commercial hauler customer class's portion of the non- disposal services costs. For example, if the sum of all non-disposal costs totaled \$100 million dollars, and the commercial customer class share of those costs was 30 percent, the FAC would be set at \$30 million dollars.

Nearly all other Solid Waste Fund revenues (other than the FAC) come from tonnage received at transfer stations. So, once the FAC is subtracted from the overall cost of service (or revenue requirement) the remaining cost must be divided by the projected tonnage to set the per-ton rates. At a high level, the relationship between the cost to provide services (expenditures), revenue, tonnage, and rates can be characterized as shown in the figure below.

Expenditures + Reserves

(Revenues Required – FAC) Tonnage

Per Ton Rate

⁹ The Solid Waste Fund has three reserves. The rainy-day reserve, the recession reserve, and the rate stabilization reserve. Each reserve account has rules for the amount of cash that must be held in reserve and when those monies can be spent. More information about reserves is provided in Section C of this report and in Appendix B. ¹⁰ FCS report, Section V.B. Solid Waste Classes of Service

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | 8

B. Proposed Fees for 2023 and 2024

Current Structure			
Per Ton Fees	2022	2023	2024
Basic Fee	\$ 154.02	\$ 168.68	N/A
New Structure			
Per Ton Fees	2022	2023	2024
Commercial Tipping Fee	\$-	\$-	\$ 150.83
Self-Haul Tipping Fee	\$-	\$ 168.68	\$ 185.28
Regional Direct	\$ 131.00	\$ 143.00	\$ 157.00
Special Waste	\$ 185.00	\$ 203.00	\$ 223.00
Yard Waste	\$ 100.00	\$ 115.00	\$ 115.00
Fixed Fee (in millions)	2022	2023	2024
Fixed Annual Charge (FAC)	N/A	N/A -	\$ 22.61
Curbside Impact	2022	2023	2024
Average monthly impact		\$ 0.79	\$ 0.90

Table 2: Proposed rates for the 2023-2024 biennium

Solid waste customers and jurisdictions have historically asked for and come to expect some measure of the impact a rate increase proposal would have on the average retail rate of resident's waste collection bills. This is what is meant by "curbside impact." The curbside impact measure identified in the above table above is an average monthly curbside financial impact for all residents in the County's service area. Notably, because all cities have different starting rates and distribute the disposal costs across their customer bases differently, the identified impact shown in this table will not match the actual curbside impact in any given city. However, it should be accurate in aggregate across the entire SWD service area. See Appendix A for additional information on the curbside impact calculation.

The two proposed one-year rate increases in disposal fees will result in disposal fees increasing at an average rate of 5.2 percent per year since 2019. This exceeds the rate of inflation over the same time period by just 1.6 percent, despite an increase in annual debt service costs of more than \$5 million annually.

The department also charges a minimum fee on self-haul and yard/wood waste charges on weights of 320 pounds or less. Some vehicles, such as passenger vehicles, are automatically charged at the minimum fee. The minimum fees are as follows:^{11,12}

¹¹ <u>KCC 10.40.020 NN</u> defines fixed-rate vehicles.

¹² The minimum fee is typically set at 16 percent of the self-haul per-ton fee and assumes the customer is bringing 320 lbs. or less to the station for disposal (320 lbs. is 16 percent of one ton).

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | 9

 Table 3: Proposed self-haul and yard/wood waste rates

Fee	2022	2023	2024
Self-Haul *	\$24.64	\$26.98	\$29.65
Yard/Wood Waste	\$16.00	\$18.00	\$18.00

*The fee shown here is pre-tax and without a moderate risk waste surcharge.¹³

In addition, the department is proposing that the Cleanup Lift discount be raised from \$14.00 to \$15.00 in 2023, and \$16.00 in 2024, which would be roughly 50 percent of the minimum fee (including taxes and fees) for garbage transactions if the rates in this proposal are adopted.¹⁴ The County has provided over 35,000 discounts to self-haul customers since the program began in 2019. So far in 2022, approximately 2.3 percent of all self-haul transactions have been Cleanup Lift transactions up from 0.64 percent in 2019 and 1.86 percent last year.

C. Financial Projections

The revenue, expenditure, and reserve assumptions used to develop this proposal are detailed in this section.

Expenditures

It is the policy of King County, as expressed through the adopted 2019 Comp Plan, to achieve zero waste of resources by 2030, modernize transfer stations built in the 1960s, and maximize the life of the landfill. These new transfer stations will expand access to recycling and hazardous waste services, reduce wait times, and increase safety. The department evaluated existing SWD programs and projects to ensure alignment with the Comp Plan's strategic goals and commitments. DNRP identified several investments that would fulfill or strengthen these goals. These are listed below.

Inflation and Supply Chain Disruption. Fuel and other prices have risen significantly in 2022, driving inflation to a 40-year high.¹⁵ Over the course of the next biennium, the department expects to pay an additional \$11 million dollars for standard operations due to inflation. Additionally, capital project costs for materials and extended project timelines as supply chain disruptions slow the delivery of some materials and increase the costs of others are driving further increases.

Capital Equipment Replacement Program (CERP) Transfer. Traditionally, the department has maintained reserves equal to 15 percent of the value of its rolling stock in the CERP in order to ensure adequate funding is in place to replace vehicles and other equipment that has reached the end of its useful life. In the 2021-2022 biennial budget, this target was reduced to 10 percent in order to keep rates low as the COVID pandemic took hold. DNRP is proposing an incremental increase in the reserve percentage due to increased fiscal demands related to meeting emission reduction goals. Therefore, DNRP will keep the reserve amount between 10 percent and 15 percent of the rolling stock value, or

¹³ The King County Board of Health sets the moderate risk waste surcharge amount that funds hazardous waste programs throughout the county.

¹⁴ For self-haul customers, the County offers a discount for low-income individuals on their transaction if they can provide an Orca LIFT, Electronic Benefits Transfer card (often referred to as an EBT card), or Medicaid card. ¹⁵ New York Times. Inflation's 40-Year High. Accessed on 4/18/22 [LINK]

just above \$10 million. As a result, the transfer amount to CERP will increase by \$4 million (over the 2021-2022 budget) in the 2023-2024 biennium. This increased transfer amount is to maintain sufficient funds to gradually replace the diesel fleet with more expensive electrical vehicles and to ensure adequate funding to deal with emergencies without overburdening rate payers. These newer electric vehicles will reduce carbon emissions and keep the air at transfer stations and along transportation routes cleaner.

New and Continuing Investments

Environmental. It is estimated that 70 percent of the refuse that arrives at the CHRLF each year may have economic value. The Re+ Program aims to divert those materials from the landfill and put them back into the economy. DNRP convened a task force of regional partners (cities, haulers, community members) to develop an implementation plan that identified actions needed to achieve this goal. The department budgeted \$8.2 million for the 2023-2024 biennium to begin executing the implementation plan that includes increasing diversion of food waste, organics, and recyclables (implementing statewide organics legislation, investing in co-digestion); investing in green jobs and the community (participating in the Next Cycle Washington business accelerator program, managing a competitive grant program, funding a community panel); and increasing support for communications and implementation of this new program.^{16,17} Investing in these projects and programs in the next biennium will help create opportunity and green jobs as the region seeks to emerge from the economic fallout caused by the COVID pandemic. These projects will also extend the life of the landfill, the least expensive disposal option the County has.

Capital Projects. Continued department investments are being made in major projects from the Comp Plan. These include building the South County Recycling and Transfer Station (SCRTS), building the Northeast Recycling and Transfer Station (NERTS), and maximizing the life and capacity of the Cedar Hills Landfill. These new transfer stations will expand access to recycling and hazardous waste services, reduce wait times, and increase safety. The long-term rate path shown in Figure 1 also includes investments in new sortation and processing technology, such as co-digestion and mixed waste processing, starting as soon as 2025. This is expected to increase annual debt service from \$15.7 million in 2022 to about \$31.3 million in 2024. As SCRTS, NERTS and other capital investments come on line, they are projected to divert more than 100,000 tons away from the landfill in future rate periods.

Furthermore, according to the Washington State Office of Financial Management's labor multiplier model, these projects are expected to generate 1,400 new jobs precisely when the County is working to emerge from the economic turbulence created by the COVID pandemic.¹⁸

Equity and Social Justice (ESJ). The department is proposing to add two fulltime community relations positions to support outreach and engagement, as well as conduct demographic analysis and equity impact reviews, on capital projects. The department is also increasing funding to compensate community members for their time and insight, which historically was unpaid, to increase partnership

¹⁶ Co-digestion is the process of turning food waste into a slurry and then "co-processing" it in a wastewater (or other) anaerobic digester along with waste water biosolids to produce biogas.

¹⁷ For additional information about Re+ and these actions, visit the County's <u>Re+ website</u>. Please note that Next Cycle Washington is referred to as the "Innovation Platform" on the Re+ website.

¹⁸ Washington State Office of Financial Management's labor multiplier model [LINK]

with communities impacted by solid waste and recycling services. Other efforts include increased coordination of, and budgeting for, ESJ training of staff to improve knowledge and skills for implementing ESJ in the department's work. The department plans to set aside \$1.3 million for the 2023-2024 biennium to promote this collaboration. These positions and the other ESJ investments mentioned here are designed to engage the community and help DNRP improve outcomes for frontline communities.

Asset Management Unit and IT. The department has developed a comprehensive, holistic approach to maintenance and repair of its assets. Additional staffing and funding to implement this work will yield long-term benefits for rate payers, as a deliberate and planned approach to asset management will maximize the life of assets and reduce the more costly emergency repairs helping to keep rates lower than they might otherwise be. Additionally, there will be upgrades to existing IT infrastructure to mitigate security risk. The total proposed cost of these programs will be \$7 million in the 2023-2024 biennium.

Reserves

The department has three reserve funds. The Rainy-Day Fund is required by County policy and is equivalent to 30 days of operating expenses. No significant changes to this fund are planned. Two other funds, the Recession Reserve and the Rate Stabilization Reserve, will be impacted during the 2023 - 2024 biennium.

Recession Reserve. The Recession Reserve is meant to provide a buffer to rate payers in the event of a recession. This reserve is equivalent to 5 percent of annual disposal revenue and is meant to be drawn down over the course of two years. After a period of recovery, the department will gradually replenish the reserve. With the onset of a recession, the department fully drew down the reserve in 2020. The department is proposing to start replenishing this reserve in 2023 at a rate of 1.6 percent of annual disposal revenues per year (\$2.5 million in 2023, \$5.4 million in 2024), and to fully replenish it back to the 5 percent of annual disposal revenues by 2026.

Rate Stabilization Reserve. The Rate Stabilization Reserve for 2022 is expected to be \$40 million. The department plans to spend down this reserve to lower and smooth rates until reaching a target of approximately \$3.1 million at the end of 2028.

Revenues

Disposal Fee Revenue. DNRP is proposing an increase in its tonnage-based fees for garbage, implementation of a FAC, and yard/wood waste fee. Typically, the department sets these rates on a biennial basis, but DNRP is now proposing annual increases. Smaller, more frequent increases will minimize the burden on rate payers and create a smoother, more predictable situation for customers and are preferred by cities.

The description and revenue projections for each fee are summarized as follows:

• **Basic Fee/Commercial Fee.** The Basic or Commercial Fee is the per-ton fee charged to commercial hauler customers disposing of municipal solid waste at transfer facilities and to

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | **12** curbside collection vehicles at the CHRLF. The department is proposing to change this fee from \$154.02 to \$168.68 in 2023, and to \$150.83 in 2024.¹⁹

• **Fixed-Annual Charge (FAC).** This will be a new charge beginning in 2024.²⁰ The department proposes implementing the FAC in January 2024 at \$22,614,181.

NOTE: The change in the Commercial Fee, combined with the increase in the FAC is projected to increase revenues by approximately \$30 million in the 2023-2024 biennium above what they would be if there were no rate increases.

- Self-haul Fee. The self-haul fee is a per-ton fee charged to individual customers disposing of municipal solid waste at transfer facilities. All loads greater than 320 pounds pay the per-ton fee, and customers with less than 320 pounds of waste are charged the minimum fee. The department is proposing to raise the self-haul fee from \$154.02 per ton to \$168.68 per ton in 2023 and \$185.28 per ton in 2024. This increase is expected to bring in \$10.2 million more in revenues in 2023-2024.
- **Regional Direct Fee.** This is a discounted fee charged to commercial collection companies that haul solid waste to the Cedar Hills Regional Landfill in transfer trailers from their own transfer stations and processing facilities, thus bypassing County transfer stations. Regional Direct tonnage is typically composed of nonrecyclable material removed from recyclables during processing. Regional Direct fees are typically set at 85 percent of the basic fee , so this fee is increasing from \$131.00 per ton in 2022 to \$143.00 per ton in 2023 and \$157.00 per ton in 2024. This increase is expected to bring in \$488,000 more in revenues in 2023-2024.
- **Special Waste.** The fee charged for certain materials that require special handling, record keeping, or both, such as asbestos-containing materials and contaminated soil. This fee is typically set at 120 percent of the basic fee (now the CCR) so this fee would increase from \$185.00 per ton in 2022 to \$203.00 per ton in 2023 and \$223.00 in 2024. This increase is expected to bring in \$110,000 more in revenues in 2023-2024.
- Yard/Wood Waste Fee. This fee is for separated yard waste and clean wood delivered to facilities that have separate collection areas for these materials. The fee had been set at \$75 per ton from 2011 to 2021. In order to bring this fee more in line with the cost of this service, the Council approved a proposal to raise the fee to \$100 per ton in 2022. Continuing the process of bringing the fee in line with cost of service, the department is proposing increasing it to \$115 per ton in 2023. This fee will increase projected revenues by about \$885,000 more in revenues in 2023-2024.

Other Revenues. DNRP collects revenues in other ways not related to disposal.

¹⁹ The fee drops in 2024 because of the addition of the FAC. When the commercial fee and the FAC are combined into the Compound Commercial Rate (CCR), the rate goes to \$185.28 in 2024.

²⁰ The intent of setting rates lower than the department anticipated needing in 2023 was to separate a rate increase proposal from the rate restructure proposal. The intent was always to replace those rates set in the restructure ordinance to appropriate levels through the 2023-2024 rate proposal process.

- **Rental Income.** The department generates additional income through rental income at Harbor Island and smaller leases for use of small spaces for cell phone towers and the like.
- Sale of Landfill Natural Gas. Landfill gas is captured at CHRLF and converted to pipeline-quality natural gas by Bio Energy Washington (BEW). The natural gas is sold to Puget Sound Energy (PSE) and the revenue is shared between BEW and the department. In addition, carbon credits, which are owned solely by the department, are sold to PSE, which brokers them on the secondary market.

The most recent total revenue projected in the rate model for the 2023-2024 biennium is \$355.3 million.

Revenue from disposal fees is projected to be \$323.6 million. An additional \$31.6 million is projected from other revenue sources.

D. Rate Determination

Each biennium, DNRP needs to raise revenue equal to its projected expenditures and required reserves. The amount of revenue required can be buffered by the existing balance in the Rate Stabilization Reserve, but at the end of each biennial cycle, the department must have enough cash on hand to fund its required reserves.

The County's solid waste system is in the early stages of redefining how solid waste is managed. The 2019 Comp Plan and the 2020 SCAP guide this transformation. The Northeast and South County Recycling and Transfer Station building projects will replace aging infrastructure and expand access to recycling. Investments in Re+, including new technologies that will reduce waste and expand processing capacity of recyclable materials, as well as investments in capturing landfill gas through the building of new capture wells, will reduce the County's carbon footprint. So too will construction projects at County-managed closed landfills and the building of electric charging infrastructure in preparation for the electrification of the department's fleet of vehicles. Re+ activities and the Area 9 project will expand the life of the landfill and provide time for the County to decide on and implement a long-term disposal alternative once the landfill closes.

Completing these projects will be a key part of the County's effort to combat climate change and reduce waste, but success requires sustained funding. The department's capital spending plan is estimated to need \$770 million in funding between 2023 and 2028, leading to a significant increase in debt service. Figure 3 (below) shows the projected capital investment across the Solid Waste system over the next six years and the corresponding increase in projected debt service costs.

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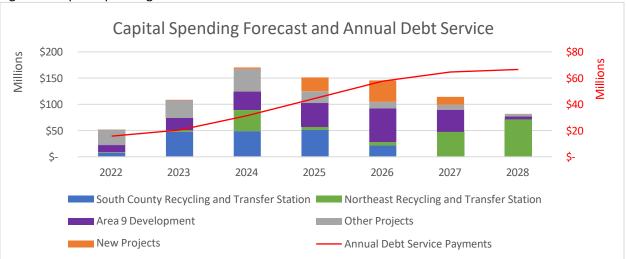


Figure 3: Capital Spending Forecast and Debt Service

Ultimately, the department sought to balance economic uncertainty in the short term with the longterm financial health of the department and the environmental health of the region. DNRP believes that its current proposal strikes a solid balance between these important goals while ensuring continued progress on regional commitments to system partners.

V. Conclusion/Next Steps

The supply chain disruptions caused by the COVID-19 pandemic, rising prices, and armed conflict in Ukraine all contribute to the economic uncertainty of this time. In response to the onset of the pandemic and the economic uncertainty that it created, the department avoided a rate increase in 2021. However, as the region begins to emerge from the threat of the pandemic, city and hauler partners still wish to see DNRP build two new transfer stations and make planned investments in climate and environmental programs.

On the expenditure side, the department has been working to address increased capital costs with rate savings elsewhere. Spending has been prioritized to focus on maintaining delivery of essential services and delivering on the commitments made in the Comp Plan and the SCAP. New investments in Re+ and continuation of capital projects are expected to provide economic stimulus during the economic recovery period. As noted earlier, Re+ could create hundreds of new green jobs while the spending on the major capital projects in the Comp Plan (transfer stations and maximization of the landfill) is expected to create about 1,400 new jobs based on the Washington State Office of Financial Management's labor multiplier model.²¹

The focus on the revenue side has been one of gradual increases. The two proposed one-year rate increases in disposal fees will result in disposal fees increasing at an average rate of 5.2 percent per

²¹ Washington State Office of Financial Management's labor multiplier model [LINK]

year since 2019. This exceeds the rate of inflation over the same period by just 1.6 percent, despite an increase in annual debt service costs of more than \$5 million annually. The economic turbulence caused by the COVID-19 pandemic has challenged budgets across the county, whether for households dealing with job losses and illness, businesses absorbing losses from closures and increased operational costs, or municipalities facing falling revenues. During this rate-setting process, the department has been sensitive to the needs of its customers and other partners and worked to reduce the need for rate increases, while preserving essential services and providing investments needed to reach the County's strategic goals and commitments.

The proposed increases for 2023 and 2024 are in line with projections from the 2022 Rate Proposal and are needed for the department's commitments to regional partners, to successful implementation of the Comp Plan and SCAP, and to the mandate to maintain essential services.

VI. Appendices

- Appendix A Revenue Neutral and Curbside Impact Calculation
- Appendix B Rate Methodology
- Appendix C Tonnage Forecast Through 2028
- Appendix D Summary of Rate Model Through 2028

Proposed Solid Waste Disposal Fees for 2023-2024 P a g e | **16**

Appendix A—Revenue Neutrality and Curbside Impact Calculation

Proposed Solid Waste Rate Restructure

Introduction

The purpose of this brief is to clarify two related yet distinct concepts with the proposed Solid Waste rate restructure. The first concept is revenue neutrality, where the total revenue collected by the Solid Waste Division (SWD) of the Department of Natural Resources and Parks (DNRP) remains the same after restructuring the way commercial disposal revenues are collected. The second concept is the curbside impact, where SWD calculates (in aggregate) how changes in County disposal rates from one year to the next impact customer retail bills "at the curb."

Revenue Neutrality

Prior to the restructure, the County collected most of its disposal revenues from commercial haulers through the basic fee, which was charged on each ton of municipal solid waste (MSW) they brought to transfer stations for disposal. The amount of revenue collected by the County was thus entirely variable based on the number of tons delivered. However, most of DNRP's SWD costs are fixed. The chief goal of the rate restructure is to carve out some of this revenue and collect it in a more fixed and predicable way. To do this, the County identifies how much revenue is needed from the commercial customer class and splits the basic fee into two new fees, the new commercial fee and the new fixed-annual charge (FAC).

While the County does not have authority to dictate how cities and haulers recover the disposal charges levied by SWD, it can seek to ensure the same amount of revenue (from commercial haulers) is collected under both the old and new structure. The following table illustrates how the same amount of revenue is generated in both cases by comparing one year (2024) under both structures.²²

Step 1: Find the 2024 Commercial Fee and Fixed Charge Values								
	2024 Current Rate Structure		2(024 Under Rate Restructure				
Basic Fee	\$	185.27	\$					
New Commercial Fee	\$		\$	150.83				
Fixed Annual Charge (FAC)	\$		\$	22,614,181				

Commercial Tons	656,580	656,580
FAC / Commercial Tons	\$ -	\$ 34.44

Step 3: Add FAC Per/Ton Equivalent to Commercial Fee							
Compound Commercial Rate	mmercial Rate \$ 185.27 \$ 185.2		185.27				
Total Revenue (rate * tons)	Ś	100,653,302	Ś	100,654,627			

²² The bottom line of Table 1 shows a \$1,566 difference in total revenue, which is due to rounding when calculating the "Fixed Charge Per/Ton Equivalent" rate and amounts to a 0.0013% increase in total annual commercial revenues.

²⁴ Thiky NG 200 UNT FAC GON CALIG REENS 2010 ER/ 656, 58 EPSTER MBER 9.3, 2022

²³ Note the values in this table come from the FCS (SWD rate consultant) report completed in October 2021. See section VI.D.2.c of the FCS report for additional details.

It is important to understand how the restructure split the basic fee into the commercial fee and the FAC, in order to understand how to correctly calculate the curbside impact of rate changes under the new structure.

Curbside Impact

Solid waste customers and jurisdictions have historically asked for and come to expect some measure of the impact a rate increase proposal would have on the average retail rate of resident's waste collection bills. This is what is meant by "curbside impact." To fill this need, DNRP created a curbside impact measure that generates an average monthly curbside impact for all residents in the County's service area. It will not match the actual curbside impact in any given city because all cities have different starting rates and distribute the disposal costs across their customer bases differently. However, it should be accurate in aggregate across the entire SWD service area.

Currently, most city/hauler contracts split the rates they charge their customers into two parts, the service and disposal components. The service component reflects the cost of collection, while the disposal component represents disposal charges paid to SWD for the disposal of waste sent to the County's landfill. The status quo commercial fee shown in Step 1 of Table 1 is used in city/hauler contracts as a reference to automatically increase the disposal component of retail rates by the percent increase in the SWD base fee. For example, if the SWD base fee increases by 10 percent, so would the disposal component of a city's retail rate.

The following formula illustrates how SWD rate staff have heretofore provided this measure:

$(Basic Fee_{New} - Basic Fee_{Old}) \times Avg.$ Household Tons per Month = Curbside Impact

This methodology can still be employed under the newly restructured rate. However, before the new commercial rate and FAC can be compared against the old basic fee, the new fees must be combined into a rate comparable to the basic fee as shown in Table 1 above. The new commercial fee plus the FAC would be combined to create a "Compound Commercial Rate" (CCR). This allows the current basic fee to be compared to the new CCR on an "apples-to-apples" basis. So, the formula then becomes:

$(CCR_{New} - Basic Fee_{Old}) \times Avg.$ Household Tons per Month = Curbside Impact

It is important to note that current city/hauler contract language does not account for the "basic fee to CCR" process, as illustrated in Table 1. This is the reason the contracts will need updated language. In the process of negotiating that change, cities and haulers may agree to pass along disposal charges in a different way than they traditionally have. This variability is why the County cannot predict the exact curbside impact for any given city (any more than it can at any point when cities and haulers are negotiating new contracts). However, the County can, and has, ensured the restructure itself does not impact the actual dollar amount of revenue it is collecting from its commercial customers (haulers/cities).²⁵

²⁵ If cities and haulers agree to pass through the disposal costs to their customers in the same manner they did under the did to the the did the disposal costs to their customers in the same manner they did under the did the disposal costs to their customers in the same manner they did under the did the disposal costs to their customers in the same manner they did under the disposal costs to their customers in the same manner they did under the disposal costs to their customers in the same manner they did under the disposal costs to their customers in the same manner they did under the disposal costs to th

Appendix B—Rate Methodology

The Solid Waste rate model seeks to balance expenditures and reserve requirements with anticipated revenues. The ending fund balance can be carried over from prior years to smooth out demands on revenues from biennium to biennium.²⁶ Descriptions of each of the major components of the rate model are provided below.

A. Expenditures

Expenditures, what the Solid Waste Division (SWD) spends to provide public services, are divided into two major categories: operating and capital expenditures. Within operating expenditures, the Solid Waste rate model distinguishes between expenditures for existing work and new work, which expand or augment existing operations.

Operating Expenses

Existing Work – Projected spending levels for existing operations are calculated by reviewing the current biennial budget, actual spending levels for the biennium, and the pro forma budget for the upcoming biennium (2023-2024).²⁷ Differences between the existing budget, pro forma budget, and actual spending levels are reconciled to create the projected expenditure for the upcoming biennium. For example, some expenditure levels are directly related to tonnage or revenue projections. For those items, expenditures are calculated based on the tonnage forecast and/or revenue projections. The business and occupation tax the division must pay is, for example, based on the projected revenue in the coming biennium, which is not provided as part of the pro forma budget, while the transfer to public health and the landfill reserve fund are both projected based on tonnage.

New Programs or Expansion of Existing Work – As part of the rate development process, SWD identifies the need for new or additional services across each section. Once new ideas such as new programs or bodies of work to meet County goals are identified, they are evaluated and prioritized based on whether they meet a regulatory mandate, cost, as well as environmental and social justice impacts.

Operational Efficiencies – King County and DNRP are committed to financial stewardship. Employees are empowered to find ways to operate more efficiently and save money for rate payers. The department looks for operational efficiencies on an ongoing basis and evaluates options for expenditure reduction as part of its biennial budget and rate-setting process.

Capital Expenditures, Landfill Reserve Fund, and Debt Service

Solid Waste capital projects and post-closure obligations at the landfill are funded through direct cash transfers to capital funds or by using bond funding to raise revenue. DNRP has three capital funds, the

²⁶ A fund is a financial accounting unit used to control and monitor the planned use of resources usually having a specific scope and often in compliance with legal and administrative requirements. Ending fund balance, or fund balance refers to the amount of money left in a fund at the end of an operating period. In this document it refers to a calendar year or biennium.

²⁷ A pro forma budget is a baseline budget projection provided by the County's Office of Performance, Strategy, and Budget (PSB). The pro forma provides a common starting point between PSB and other County departments as they begin to develop their biennial budget proposals.

Solid Waste construction improvement fund (CIP), the Solid Waste capital equipment replacement program fund (CERP), and the landfill reserve fund (LRF).

Construction Fund Transfer

Typically, \$4 million per biennium is transferred from the operating fund to the construction fund to pay for small capital projects when bond financing is not the appropriate funding instrument. The transfer amount is evaluated biennially by DNRP as part of the rate-setting process.

CERP Fund Transfer

DNRP develops an annual spending plan to address the needs for solid waste equipment replacement over the next six years. The transfer rate is calculated to provide the necessary funding for the planned spending above the required reserve amount.

LRF Transfer

The landfill reserve fund transfer amount is calculated on a per-ton basis. Key variables include the tonnage forecast, the estimated date that Cedar Hills Regional Landfill reaches capacity, and the projected cost for post-closure activities. Traditionally, new landfill development and closure projects were cash-funded from the LRF. Given the desire to keep rates low and the projected cost of planned development of Area 9, it became apparent that debt-financing these projects (instead of cash financing them) would provide significant relief to rate payers.²⁸ King County Code 4A.200.390, which governs the LRF, was updated in 2020 to explicitly allow bond proceeds to fund these projects.

Debt Service

DNRP, in consultation with PSB, annually reviews its Capital Improvement Program to update planned spending on existing projects and decide what other projects are needed. The cash flows are then multiplied by an accomplishment rate (typically assume 85 percent) and these amounts are used to project the needed bond issuances to estimate the cost of debt service over the next six years.^{29,30} The projected amount of new debt service is added to the scheduled debt service to arrive at an estimated expenditure in the rate model.

Reserve Requirements

DNRP has three financial reserves—the Rainy Day Reserve, the Recession Reserve, and the Rate Stabilization Reserve.

²⁸ While cash funding projects is less expensive overall (since there is no interest cost), debt financing spreads those costs over time, so the rate does not have to increase sharply for a few years to cash fund expensive projects like transfer stations or new landfill cells. Thus, employing bond-financing in place of cash-financing (where permitted) rates are kept lower in the near term.

²⁹ Capital accomplishment rate means how much of the forecasted project cost was actually spent in a given year. For example, if one forecasts spending \$100 million in a year but only spends \$85 million, the accomplishment rate for that project for that year is 85 percent. Assuming an accomplishment rate below 100 percent means the rate model will expect less debt will need to be issued (in this case 15 percent less) and thus the resulting debt service payments (and by extension, the rate) will be lower.

³⁰ DNRP, in consultation with PSB, reviewed historical accomplishment rates for SWD and found they were lower than 85 percent for the last four years. The Wastewater Treatment Division of DNRP uses an 85 percent accomplishment rate as well and was used by SWD as a model in 2022.

Rainy Day Reserve

King County Comprehensive <u>Financial Management Policies</u> require that operating funds include a Rainy Day Reserve sufficient to cover operating expenditures for up to 60 days but no less than 30 days. The department has set this reserve amount equal to 30 days of operating expenditures.

Recession Reserve

In case of a recession, this reserve provides a buffer for the rate to protect the rate payers from financial impacts resulting from falling tonnage due to a recession, so customers are not faced with major rate increases during a recession. It is set at 5 percent of annual disposal revenue. In years with a recession, this fund is intended to be drawn down by no more than 50 percent per year. After the recession has ended, the fund is gradually refilled over a five-year period.³¹

Rate Stabilization Reserve

The rate stabilization reserve allows for ending fund balances to be carried over between biennia, which when utilized, can help smooth revenue demands over time. This creates a more predictable path for rate payers. For example, when a department spends less than it collects in a given year, it can carry that savings over into future years through the rate stabilization reserve. This reserve can be used to cover costs in future years thus reducing the impact of cost increases in future years, helping keep rates from spiking from one year to the next.

Revenues

Beginning in 2024, about 90 percent of the Solid Waste program's revenue will come from a combination of disposal fees and the proposed fixed-annual charge (FAC). Other sources of revenue include the sale of gas gathered at the Cedar Hills landfill; rental income from real property owned by the department; a fee from construction and demolition waste collected at third-party recycling facilities; and the commodity value of recyclables collected at the stations. DNRP also receives reimbursement income from the <u>Hazardous Waste Management Program</u> in exchange for providing household hazardous waste collection services. Miscellaneous sources of revenue include various grants, interest earnings, and other small-dollar sources.

Disposal and Recycling Fees

Disposal and recycling fees are collected on a per-ton and per-item basis, depending on the material. The projected revenues for these sources are calculated using the tonnage forecast. The rate model is used to determine the revenue requirement and fee schedule needed to balance the expenditure and reserve requirements once all other revenue sources are incorporated into the model.

Per-Ton Fees

- **Basic/Commercial Fee.** The per-ton fee charged to customers disposing of municipal solid waste at transfer facilities and to curbside collection vehicles at the Cedar Hills landfill. Until 2024, the basic fee will be charged to both commercial and self-haul customers. However, in 2024, upon the implementation of the rate restructure and its FAC, the basic fee will be split into the commercial tipping fee and the self-haul fee. The commercial fee will drop in 2024 to offset the revenue that will begin to accrue from the new FAC.
- Fixed Annual Charge. Beginning in 2024, the fee charged to each of the primary curbside

³¹ Per King County Comprehensive Management Policies [LINK]

collection haulers based on the share of total tons brought in from each of their service areas. The FAC will be based on the share of the cost of non-disposal activities allocated to the commercial solid waste hauler customer class.

- **Basic/Self-Haul Fee.** The per-ton fee charged to customers disposing of municipal solid waste at transfer facilities. The minimum fee that a customer would pay is equivalent to 320 pounds. Until 2024, the basic fee will be charged to both commercial and self-haul customers. However, in 2024, upon the implementation of the rate restructure and its FAC, the basic fee will be split into the commercial tipping fee and the self-haul fee. Since the FAC is not collected from self-haul customers, the self-haul tipping fee will be higher than the commercial tipping fee starting in 2024.
- **Regional Direct Fee.** A discounted fee charged to commercial collection companies that haul solid waste to Cedar Hills in transfer trailers from their own transfer stations and processing facilities, thus bypassing county transfer stations. This fee will be set at 85 percent of the Compound Commercial Fee (CCR).³²
- **Special Waste Fee.** The fee charged for certain materials that require special handling, record keeping, or both, such as asbestos-containing materials and contaminated soil. This fee is set at 120 percent of the CCR.
- Yard Waste and Clean Wood Waste. A fee for separated yard waste and clean wood delivered to facilities that have separate collection areas for these materials.

Per-Item Fees

- **CFC Appliances.** Appliances with CFCs, such as refrigerators, are charged on a per item basis.
- Mattresses. Mattresses, box springs, and other mattress like items are charged on a per-item basis.
- **Unsecured Loads.** Vehicles that arrive at our stations with unsecured loads are charged a \$25 fee.

Cleanup LIFT

For self-haul customers, the County offers a discount for low-income individuals on their transaction if they can provide an Orca LIFT, Electronic Benefits Transfer card (often referred to as an EBT card), or Medicaid card.

Other Revenue

Sale of Landfill Natural Gas

Methane, which is a natural byproduct of the decomposition of waste, is captured at Cedar Hills Regional Landfill and converted to pipeline-quality natural gas by Bio-Energy Washington (BEW). The natural gas is sold to Puget Sound Energy (PSE), with shared revenue between BEW and the Solid Waste Fund. In addition, the environmental attributes, which are owned solely by the department, are sold to PSE, which brokers them on the secondary market. Energy markets are relatively volatile, so a conservative estimate is included in the rate model.

Rental Income

³² The new rate restructure for commercial revenues creates a challenge when comparing pre-restructure rates to the new format. To do so, the restructured commercial fee and the FAC can be combined to create a rate value called the composite commercial rate (CCR), which can then be compared directly with the pre-restructure basic fee. The CCR is used solely to facilitate equal comparisons between pre-restructure rates with rates under the new structure; it is not for billing customers.

DNRP receives revenue from a variety of rental properties. The rent from schedule for each lease is modelled, and properties that are near the end of their lease terms are re-evaluated for income potential.

Construction and Demolition Fee

DRNP collects a small fee from each ton of construction and demolition waste collected at third-party sorting and reclamation facilities. This revenue funds the cost of administering the Construction and Demolition recycling program.

Moderate Risk Waste Reimbursement Expense

DNRP receives reimbursement income from the Hazardous Waste Management Program in exchange for providing household hazardous waste collection services.

Recyclable Materials Proceeds

Recycling collected at the transfer stations is sent to material processing facilities, and DNRP pays for hauling costs and processing. The department then receives the commodity value of the processed material as revenue. After China implemented a policy that effectively banned the importation of recyclable materials, values for many common materials fell precipitously. Thus, the proceeds from the sale of recyclable material are projected to be a declining revenue source for the department.

Appendix C – Tonnage Forecast Through 2028

The rate proposal was developed using a forecast of the amount of waste that will be disposed of at department facilities during the rate period. The forecast relies on established statistical relationships between waste being disposed and some economic and demographic variables that affect it, namely population, employment, and consumption.³³

Year	Туре	Transfer Station Tons	Regional Direct	Special Waste	Total Tons Disposed	Yard/ Wood Waste	Total System Tons
2017	Actual	915,570	12,161	3,446	931,177	21,966	953,143
2018	Actual	867,842	17,039	3,632	888,513	19,150	907,663
2019	Actual	858,300	7,542	2,690	868,532	22,739	891,271
2020	Actual	836,461	31,500	1,500	869,461	23,567	893,028
2021	Actual	851,338	24,736	1,838	877,912	24,838	902,750
2022	Forecast	870,361	12,500	2,000	884,861	25,700	910,561
2023	Forecast	882,330	12,500	2,000	896,830	28,000	924,830
2024	Forecast	876,938	12,500	2,000	891,438	31,000	922,438
2025	Forecast	869,945	12,500	2,000	884,445	34,000	918,445
2026	Forecast	851,582	12,500	2,000	866,082	34,000	900,082
2027	Forecast	833,181	12,500	2,000	847,681	34,000	881,681
2028	Forecast	720,307	12,500	2,000	734,807	34,000	768,807

³³ Conking ic Denvired Coulin Chengine Envire Pol DER ing auser philember 13, 2022

Appendix D – Summary of Rate Model Through 2028

	Actuals	Projected	Proposed		Forecast			
Fund Account Summary	2021	2022	2023	2024	2025	2026	2027	2028
Basic Fee	\$ 140.82	\$ 154.02	\$ 168.68	\$-	\$-	\$-	\$-	\$-
Percent change	0.00%	9.37%	9.60%	9.60%	9.60%	9.60%	9.60%	9.60%
Commercial Tipping Fee	\$-	\$-	\$ -	\$ 150.83	\$ 167.93	\$ 186.81	\$ 205.95	\$ 226.23
Fixed-Annual Charge (in millions)	\$-	\$-	\$-	\$ 22.61	\$ 23.07	\$ 23.30	\$ 24.56	\$ 23.36
REVENUES								
Disposal Fees	\$ 128,952,887	\$ 139,148,468	\$ 154,659,743	\$ 168,978,508	\$ 184,251,600	\$ 198,050,904	\$ 212,852,274	\$ 204,825,379
Landfill Gas	\$ 2,238,326	\$ 2,150,000	\$ 3,750,000	\$ 3,750,000	\$ 3,750,000	\$ 3,750,000	\$ 3,750,000	\$ 3,750,000
Other Revenues*	\$ 27,607,086	\$ 12,334,080	\$ 11,869,937	\$ 12,249,015	\$ 12,640,114	\$ 12,958,277	\$ 13,201,081	\$ 13,451,803
Total Revenues	\$ 158,798,300	\$ 153,632,548	\$ 170,279,680	\$ 184,977,523	\$ 200,641,714	\$ 214,759,181	\$ 229,803,355	\$ 222,027,182
EXPENDITURES								
SWD Operating Expenditures	\$ 108,391,693	\$ 126,769,526	\$ 129,022,400	\$ 131,147,191	\$ 137,959,737	\$ 142,043,647	\$ 147,386,835	\$ 138,923,021
Landfill Reserve Fund	\$ 13,787,230	\$ 12,742,954	\$ 13,750,160	\$ 14,535,689	\$ 15,326,461	\$ 15,937,390	\$ 16,551,724	\$ 15,208,916
Capital Equipment Recovery Program	\$ 3,373,524	\$ 3,373,524	\$ 4,500,000	\$ 5,500,000	\$ 6,500,000	\$ 7,500,000	\$ 7,000,000	\$ 6,000,000
Construction Fund	\$ 1,999,992	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Debt Service	\$ 14,237,888	\$ 15,760,180	\$ 20,262,454	\$ 30,767,171	\$ 43,078,469	\$ 54,983,624	\$ 61,212,025	\$ 62,706,300
Total Expenditures	\$ 141,790,327	\$ 160,646,184	\$ 169,535,014	\$ 183,950,052	\$ 204,864,666	\$ 222,464,661	\$ 234,150,585	\$ 224,838,236
RESERVES								
Rainy Day	\$ 9,979,177	\$ 11,554,511	\$ 12,288,686	\$ 13,347,889	\$ 14,950,766	\$ 16,294,141	\$ 17,265,848	\$ 16,703,020
Recession Reserve	\$-	\$ -	\$ 2,475,087	\$ 5,409,300	\$ 8,849,329	\$ 9,910,544	\$ 10,653,237	\$ 10,254,551
Rate Stabilization Reserve	\$ 48,993,881	\$ 40,404,911	\$ 37,736,396	\$ 34,337,049	\$ 24,404,910	\$ 13,390,056	\$ 6,170,001	\$ 3,067,721

*The large increase in 2021 was due to the sale of surplus property (Eastgate) which was a one-time revenue