

## PROJECTED 2024 AVERAGE QUARTERLY PRICING (Using CY2023 Material Sales Data)

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2023 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,522.03	\$4,415.70	\$4,176.90	\$3,327.46	\$4,110.52	1.97%	\$80.98	0.56%	\$23.02
Cardboard	\$74.95	\$51.27	\$79.98	\$81.25	\$71.86	33.39%	\$23.99	55.44%	\$39.84
GLASS--Mixed	\$71.04	\$136.38	\$89.29	\$67.55	\$91.07	18.25%	\$16.62	14.94%	\$13.61
HDPE--Mixed	\$202.12	\$119.31	\$269.89	\$161.21	\$188.13	0.99%	\$1.86	0.87%	\$1.64
HDPE--Natural	\$481.34	\$447.22	\$911.23	\$1,061.90	\$725.42	0.53%	\$3.84	1.02%	\$7.40
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$75.00)	4.62%	(\$3.47)	4.55%	(\$3.41)
METAL	\$82.80	\$83.43	\$139.49	\$119.33	\$106.26	4.11%	\$4.37	3.05%	\$3.24
Mixed Plastic	\$78.74	\$41.76	\$52.96	\$52.30	\$56.44	2.65%	\$1.50	1.67%	\$0.94
Newspaper	\$121.56	\$87.47	\$70.01	\$69.98	\$87.26	15.66%	\$13.66	8.52%	\$7.43
PET	\$2,609.08	\$2,029.12	\$1,478.08	\$1,050.74	\$1,791.76	2.51%	\$44.97	1.07%	\$19.17
TIN	\$93.56	\$72.98	\$103.06	\$129.96	\$99.89	1.43%	\$1.43	1.36%	\$1.36
Residue					(\$75.00)	13.51%	(\$10.13)	6.72%	(\$5.04)
Single Stream Value per Ton							\$179.63		\$109.20

City 70% Material Sales Revenue Share (30% paid to NRWS)	\$125.74	\$76.44
Over-baseline Processing Fee paid to NRWS (3% PPI increase)	101.37	101.37
Net Revenue Retained by City	\$24.37	(\$24.94)
Projected \$/ton Single-Stream Portion of Capital Costs	\$ 21.89	\$ 21.89
Recommended Market Variability (24%) Buffer	\$ 43.11	\$ 26.21
Net Revenue before Proposed Gate Fee	(\$40.63)	(\$73.03)
Proposed Residential Single-Stream Gate Fee	\$ 30.00	
Proposed Commercial Single-Stream Gate Fee		\$75.00
Net Revenue Retained by City (before 24% market buffer)	\$ (10.63)	\$1.97
Net Revenue Retained by City (after 24% market buffer)	\$ 32.48	\$28.17

## PROJECTED 2024 County (NCRWS) AVERAGE QUARTERLY PRICING (Using CY2023 Material Sales Data)

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2023 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,522.03	\$4,415.70	\$4,176.90	\$3,327.46	\$4,110.52	2.01%	\$82.62	0.33%	\$13.56
Cardboard	\$74.95	\$51.27	\$79.98	\$81.25	\$71.86	32.77%	\$23.55	59.18%	\$42.53
GLASS--Mixed	\$71.04	\$136.38	\$89.29	\$67.55	\$91.07	22.85%	\$20.81	19.40%	\$17.67
HDPE--Mixed	\$202.12	\$119.31	\$269.89	\$161.21	\$188.13	0.63%	\$1.19	0.60%	\$1.13
HDPE--Natural	\$481.34	\$447.22	\$911.23	\$1,061.90	\$725.42	0.43%	\$3.12	0.63%	\$4.57
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$75.00)	4.41%	(\$3.31)	2.96%	(\$2.22)
METAL	\$82.80	\$83.43	\$139.49	\$119.33	\$106.26	4.20%	\$4.46	1.51%	\$1.60
Mixed Plastic	\$78.74	\$41.76	\$52.96	\$52.30	\$56.44	2.12%	\$1.20	2.27%	\$1.28
Newspaper	\$121.56	\$87.47	\$70.01	\$69.98	\$87.26	16.99%	\$14.82	5.83%	\$5.09
PET	\$2,609.08	\$2,029.12	\$1,478.08	\$1,050.74	\$1,791.76	2.75%	\$49.27	1.07%	\$19.17
TIN	\$93.56	\$72.98	\$103.06	\$129.96	\$99.89	1.36%	\$1.36	1.05%	\$1.05
Residue					(\$75.00)	9.48%	(\$7.11)	5.16%	(\$3.87)

## Single Stream Value per Ton

\$191.98

\$101.56

City 70% Material Sales Revenue Share (30% paid to NRWS)

\$134.39

\$71.09

Over-baseline Processing Fee paid to NRWS (3% PPI increase)

101.37

101.37

Net Revenue Retained by City

\$33.01

(\$30.28)

Projected \$/ton Single-Stream Portion of Capital Costs

\$ 21.89

\$ 21.89

Recommended Market Variability (20%) Buffer

\$ 38.40

\$ 20.31

Net Revenue before Proposed Gate Fee

(\$27.27)

(\$72.48)

Proposed Residential Single-Stream Gate Fee (or Credit)

\$ 25.00

Proposed Commercial Single-Stream Gate Fee (or Credit)

\$70.00

Net Revenue Retained by City (before 20% market buffer)

\$ (2.27)

(\$2.48)

Net Revenue Retained by City (after 20% market buffer)

\$ 36.12

\$17.83

# ATTACHMENT 2

Description	CY2023 (Average \$/ton)	CY2022 (Average \$/Ton)	CY2021 (Average \$/ton)	CY2020 (Average \$/ton)	CY2019 (Average \$/ton)	CY2018 (Average \$/ton)	CY2017 (Average \$/ton)	CY2016 (Average \$/ton)	CY2015 (Average \$/ton)	CY2014 (Average \$/ton)
Residential Single Stream	\$179.63	\$267.99	\$139.17	\$126.83	\$121.00	\$135.01	\$164.73	\$150.75	\$163.11	\$175.29
Commercial Single Stream	\$109.20	\$211.47	\$110.00	\$91.26	\$88.20	\$103.97	\$133.71	\$118.96	\$137.96	\$152.69
	CY23 vs. CY22	CY22 vs. CY21	CY21 vs. CY20	CY20 vs. CY19	CY19 vs. CY18	CY18 vs. CY17	CY17 vs. CY16	CY16 vs. CY15	CY15 vs. CY14	Average Annual Change (CY16-CY23)
Residential \$/ton Change	(\$88.36)	\$128.82	\$12.34	\$5.83	(\$14.01)	(\$29.72)	\$13.99	(\$12.37)	(\$12.17)	\$0.48
Residential \$/ton % Change	-33%	93%	10%	5%	-10%	-18%	9%	-8%	-7%	4%
Residential % Change Absolute Value	33%	93%	10%	5%	10%	18%	9%	8%	7%	21%
Commercial \$/ton Change	(\$102.28)	\$101.47	\$18.75	\$3.06	(\$15.77)	(\$29.74)	\$14.76	(\$19.00)	(\$14.73)	(\$4.83)
Commercial \$/ton % Change	-48%	92%	21%	3%	-15%	-22%	12%	-14%	-10%	2%
Commerical % Change Absolute Value	48%	92%	21%	3%	15%	22%	12%	14%	10%	26%

<b>Recommended Market Volatility Buffer Percentage (Non-County Third Party)</b>				<b>24%</b>
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<b>Recommended Market Volatility Buffer Percentage (Napa County/NCRWS)</b>				<b>20%</b>
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**NCRWS County Commercial**

Date		12/28/2021	12/21/2022	12/22/2023	3-year avg (21-23)	
Composition (% by weight)						
Paper	Newspaper (including mixed paper and magazines)	6.33	6.06	5.09	5.83	5.83%
	Corrugated cardboard (including chipboard and kraft bags)	47.93	73.88	54.90	58.90	58.90%
	Paper cartons	0.19	0.14	0.52	0.28	0.28%
Plastic	PET #1 bottles	1.86	0.58	0.78	1.07	1.07%
	HDPE #2 bottles natural	1.27	0.29	0.34	0.63	0.63%
	HDPE #2 bottles colored	0.58	0.43	0.79	0.60	0.60%
	Film plastic	2.80	2.31	3.78	2.96	2.96%
	Mixed rigid plastic	1.73	3.17	1.92	2.27	2.27%
Metal	Aluminum cans	0.19	0.43	0.38	0.33	0.33%
	Steel/tin cans	1.06	0.29	1.79	1.05	1.05%
	Scrap metal	1.51	0.72	2.29	1.51	1.51%
Glass	Mixed glass	28.51	6.65	23.03	19.40	19.40%
Residue		6.04	5.05	4.39	5.16	5.16%
Total		100.00	100.00	100.00	100.00	

**NCRWS County Residential**

Date		12/22/2021	12/21/2022	12/22/2023	3-year avg (21-23)	
Composition (% by weight)						
Paper	Newspaper (including mixed paper and magazines)	20.88	14.89	15.21	16.99	16.99%
	Corrugated cardboard (including chipboard and kraft bags)	31.44	31.41	33.78	32.21	32.21%
	Paper cartons	0.62	0.54	0.52	0.56	0.56%
Plastic	PET #1 bottles	3.58	2.17	2.49	2.75	2.75%
	HDPE #2 bottles natural	0.28	0.33	0.69	0.43	0.43%
	HDPE #2 bottles colored	0.25	0.76	0.87	0.63	0.63%
	Film plastic	4.23	3.80	5.21	4.41	4.41%
	Mixed rigid plastic	0.55	3.59	2.21	2.12	2.12%
Metal	Aluminum cans	1.15	2.50	2.37	2.01	2.01%
	Steel/tin cans	0.44	1.63	2.01	1.36	1.36%
	Scrap metal	1.66	7.83	3.12	4.20	4.20%
Glass	Mixed glass	25.88	20.22	22.45	22.85	22.85%
Residue		9.04	10.33	9.07	9.48	9.48%
Total		100.00	100.00	100.00	100.00	

## ATTACHMENT 2

### NRWS City Commercial

Year		12/28/2021	12/21/2022	12/22/2023	3-year avg (21-23)	
Composition (% by weight)						
Paper	Newspaper (including mixed paper and magazines)	7.90	8.53	9.12	8.52	8.52%
	Corrugated cardboard (including chipboard and kraft bags)	51.50	61.56	53.27	55.44	55.44%
	Paper cartons (#'s prior to 2016 are for white office paper)	0.20	0.29	0.22	0.24	0.24%
Plastic	PET #1 bottles	1.30	1.01	0.89	1.07	1.07%
	HDPE #2 bottles natural	1.28	0.58	1.20	1.02	1.02%
	HDPE #2 bottles colored	1.01	0.72	0.89	0.87	0.87%
	Film plastic	4.20	4.34	5.10	4.55	4.55%
	Mixed rigid plastic	2.10	2.02	0.88	1.67	1.67%
Metal	Aluminum cans	0.36	0.72	0.59	0.56	0.56%
	Steel/tin cans	1.50	0.87	1.72	1.36	1.36%
	Scrap metal	3.30	3.47	2.37	3.05	3.05%
Glass	Mixed glass	17.85	8.09	18.88	14.94	14.94%
Residue		7.50	7.80	4.87	6.72	6.72%
Total		100.00	100.00	100.00	100.00	

## ATTACHMENT 2

### NRWS City Residential

Date		12/15/2020	12/22/2021	12/21/2022	12/22/2023 yr avg (2021-23)	
Composition (% by weight)						
Paper	Newspaper (including mixed paper and magazines)	21.56	19.11	14.67	13.20	15.66
	Corrugated cardboard (including chipboard and kraft bags)	34.43	29.27	36.00	34.90	33.39%
	Paper cartons (#'s prior to 2016 are for white office paper)	0.27	0.33	0.67	0.14	0.38%
Plastic	PET #1 bottles	2.31	2.41	2.44	2.69	2.51%
	HDPE #2 bottles natural	0.36	0.88	0.22	0.49	0.53%
	HDPE #2 bottles colored	1.62	1.15	1.11	0.72	0.99%
	Film plastic	4.63	4.99	4.89	3.97	4.62%
	Mixed rigid plastic	1.37	1.77	3.78	2.40	2.65%
Metal	Aluminum cans	0.76	0.92	2.44	2.56	1.97%
	Steel/tin cans	0.43	1.00	1.56	1.72	1.43%
	Scrap metal	2.62	6.88	1.56	3.89	4.11%
Glass	Mixed glass	19.77	18.75	16.89	19.12	18.25%
Residue		9.87	12.54	13.78	14.20	13.51%
Total		100.00	100.00	100.00	100.00	100.00

## 2023 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2023 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,522.03	\$4,415.70	\$4,176.90	\$3,327.46	\$4,110.52	1.97%	\$80.98	0.56%	\$23.02
Cardboard	\$74.95	\$51.27	\$79.98	\$81.25	\$71.86	33.39%	\$23.99	55.44%	\$39.84
GLASS--Mixed	\$71.04	\$136.38	\$89.29	\$67.55	\$91.07	18.25%	\$16.62	14.94%	\$13.61
HDPE--Mixed	\$202.12	\$119.31	\$269.89	\$161.21	\$188.13	0.99%	\$1.86	0.87%	\$1.64
HDPE--Natural	\$481.34	\$447.22	\$911.23	\$1,061.90	\$725.42	0.53%	\$3.84	1.02%	\$7.40
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$75.00)	4.62%	(\$3.47)	4.55%	(\$3.41)
METAL	\$82.80	\$83.43	\$139.49	\$119.33	\$106.26	4.11%	\$4.37	3.05%	\$3.24
Mixed Plastic	\$78.74	\$41.76	\$52.96	\$52.30	\$56.44	2.65%	\$1.50	1.67%	\$0.94
Newspaper	\$121.56	\$87.47	\$70.01	\$69.98	\$87.26	15.66%	\$13.66	8.52%	\$7.43
PET	\$2,609.08	\$2,029.12	\$1,478.08	\$1,050.74	\$1,791.76	2.51%	\$44.97	1.07%	\$19.17
TIN	\$93.56	\$72.98	\$103.06	\$129.96	\$99.89	1.43%	\$1.43	1.36%	\$1.36
Residue					(\$75.00)	13.51%	(\$10.13)	6.72%	(\$5.04)
Single Stream Value per Ton							\$179.63		\$109.20



## ATTACHMENT 2

### 2022 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2022 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,993.31	\$4,909.69	\$4,187.20	\$4,912.51	\$4,750.68	1.37%	\$65.08	0.49%	\$23.28
Cardboard	\$178.52	\$165.17	\$127.02	\$134.52	\$151.31	33.23%	\$50.28	51.43%	\$77.82
GLASS--Mixed	\$1,287.43	\$45.52	\$90.12	\$65.35	\$372.11	18.47%	\$68.73	15.76%	\$58.64
HDPE--Mixed	\$1,120.07	\$632.35	\$286.43	\$186.45	\$556.33	1.29%	\$7.18	0.94%	\$5.23
HDPE--Natural	\$1,016.24	\$1,470.89	\$474.33	\$426.80	\$847.07	0.49%	\$4.15	1.18%	\$10.00
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$71.25)	4.84%	(\$3.45)	4.29%	(\$3.06)
METAL	\$159.64	\$160.55	\$194.40	\$59.43	\$143.51	3.69%	\$5.30	2.86%	\$4.10
Mixed Plastic	\$87.15	\$84.61	\$82.68	\$126.92	\$95.34	2.31%	\$2.20	2.02%	\$1.93
Newspaper	\$85.46	\$107.33	\$109.75	\$99.22	\$100.44	18.45%	\$18.53	10.26%	\$10.31
PET	\$2,603.34	\$2,532.18	\$2,184.06	\$2,247.98	\$2,391.89	2.39%	\$57.17	1.15%	\$27.51
TIN	\$137.96	\$119.41	\$144.80	\$164.48	\$141.66	1.00%	\$1.42	1.14%	\$1.61
Residue					(\$71.25)	12.06%	(\$8.59)	8.27%	(\$5.89)
Single Stream Value per Ton							\$267.99		\$211.47

## 2021 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2021 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,123.19	\$4,093.72	\$3,836.11	\$4,530.28	\$4,145.83	0.75%	\$30.89	0.30%	\$12.43
Cardboard	\$87.87	\$95.72	\$97.20	\$142.43	\$105.81	31.12%	\$32.93	43.54%	\$46.07
GLASS--Mixed	\$69.83	\$5.18	\$114.42	\$91.67	\$70.28	18.03%	\$12.67	20.23%	\$14.22
HDPE--Mixed	\$206.04	\$277.21	\$326.80	\$266.31	\$269.09	1.52%	\$4.08	0.96%	\$2.59
HDPE--Natural	\$388.03	\$600.00	\$1,074.65	\$1,378.28	\$860.24	0.52%	\$4.51	1.04%	\$8.92
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$69.25)	5.50%	(\$3.81)	4.97%	(\$3.44)
METAL	\$81.92	\$115.79	\$128.41	\$177.12	\$125.81	4.65%	\$5.85	1.81%	\$2.28
Mixed Plastic	\$20.00	\$18.48	\$22.02	\$80.46	\$35.24	1.23%	\$0.43	1.93%	\$0.68
Newspaper	\$14.93	\$33.24	\$40.25	\$52.05	\$35.12	22.93%	\$8.05	15.01%	\$5.27
PET	\$2,341.87	\$2,296.66	\$2,025.18	\$2,345.99	\$2,252.43	2.24%	\$50.45	1.13%	\$25.42
TIN	\$33.03	\$43.81	\$85.46	\$137.46	\$74.94	0.62%	\$0.47	1.17%	\$0.87
Residue					(\$69.25)	10.62%	(\$7.35)	7.64%	(\$5.29)
Single Stream Value per Ton						100%	\$139.17	100%	\$110.00

## 2020 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2019 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$3,915.76	\$4,315.26	\$3,614.91	\$3,566.44	\$3,853.09	0.58%	\$22.35	0.29%	\$11.17
Cardboard	\$46.00	\$36.69	\$58.13	\$110.37	\$62.80	28.26%	\$17.75	38.11%	\$23.93
GLASS--Mixed	\$125.76	\$64.18	\$93.43	\$60.61	\$86.00	21.22%	\$18.25	22.86%	\$19.66
HDPE--Mixed	\$148.50	\$257.73	\$186.67	\$175.58	\$192.12	1.47%	\$2.82	1.28%	\$2.46
HDPE--Natural	\$337.86	\$254.46	\$697.73	\$0.00	\$322.51	0.57%	\$1.84	1.37%	\$4.42
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$68.25)	4.51%	(\$3.08)	4.87%	(\$3.32)
METAL	\$90.51	\$41.49	\$60.22	\$64.56	\$64.20	2.83%	\$1.82	1.36%	\$0.87
Mixed Plastic	\$22.97	\$20.00	\$20.00	\$19.61	\$20.65	1.33%	\$0.27	2.42%	\$0.50
Newspaper	(\$13.70)	(\$16.82)	(\$13.42)	(\$2.73)	(\$11.67)	25.51%	(\$2.98)	15.09%	(\$1.76)
PET	\$3,117.35	\$2,286.16	\$2,096.60	\$2,358.52	\$2,464.66	3.01%	\$74.19	1.56%	\$38.45
TIN	\$25.28	\$21.09	\$26.91	\$27.13	\$25.10	0.98%	\$0.25	2.40%	\$0.60
Residue					(\$68.25)	9.73%	(\$6.64)	8.39%	(\$5.73)
Single Stream Value per Ton						\$126.83		\$91.26	

## 2019 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2019 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,931.63	\$4,535.65	\$4,426.20	\$4,020.76	\$4,478.56	0.53%	\$23.92	0.23%	\$10.39
Cardboard	\$77.93	\$92.87	\$78.10	\$42.40	\$72.83	23.78%	\$17.32	34.65%	\$25.23
GLASS--Mixed	\$43.89	\$51.32	\$57.62	\$24.84	\$44.42	23.71%	\$10.53	18.56%	\$8.25
HDPE--Mixed	\$182.14	\$135.03	\$129.45	\$384.80	\$207.86	1.50%	\$3.12	1.27%	\$2.64
HDPE--Natural	\$578.20	\$489.38	\$467.50	\$417.11	\$488.05	0.60%	\$2.90	1.10%	\$5.34
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$68.25)	3.71%	(\$2.53)	4.27%	(\$2.92)
METAL	\$116.62	\$89.39	\$96.66	\$100.11	\$100.70	2.00%	\$2.01	4.56%	\$4.59
Mixed Plastic	\$7.44	\$7.72	\$23.14	\$28.22	\$16.63	1.15%	\$0.19	2.70%	\$0.45
Newspaper	\$3.53	\$4.93	(\$18.16)	(\$15.12)	(\$6.21)	29.37%	(\$1.82)	19.83%	(\$1.23)
PET	\$2,036.82	\$1,877.15	\$1,893.32	\$2,419.18	\$2,056.62	3.44%	\$70.79	1.89%	\$38.91
TIN	\$56.15	\$48.07	\$41.63	\$33.79	\$44.91	1.36%	\$0.61	3.54%	\$1.59
Residue					(\$68.25)	8.84%	(\$6.03)	7.40%	(\$5.05)
Single Stream Value per Ton						\$121.00		\$88.20	

## 2018 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2018 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,582.71	\$5,052.60	\$4,297.20	\$4,455.64	\$4,597.04	0.53%	\$24.55	0.23%	\$10.67
Cardboard	\$165.37	\$129.03	\$65.93	\$56.15	\$104.12	23.78%	\$24.76	34.65%	\$36.08
GLASS--Mixed	\$42.27	\$42.18	\$41.26	\$41.26	\$41.74	23.71%	\$9.90	18.56%	\$7.75
HDPE--Mixed	\$140.44	\$123.27	\$185.10	\$193.66	\$160.62	1.50%	\$2.41	1.27%	\$2.04
HDPE--Natural	\$377.41	\$408.61	\$336.69	\$461.75	\$396.12	0.60%	\$2.36	1.10%	\$4.34
LDPE--Mixed	\$0.00	\$0.00	\$0.00	\$0.00	(\$67.25)	3.71%	(\$2.50)	4.27%	(\$2.87)
METAL	\$117.53	\$101.00	\$109.17	\$105.33	\$108.26	2.00%	\$2.16	4.56%	\$4.94
Mixed Plastic	\$59.21	\$33.46	\$32.15	\$30.63	\$38.86	1.15%	\$0.45	2.70%	\$1.05
Newspaper	\$104.15	\$67.58	(\$8.72)	(\$21.17)	\$35.46	29.37%	\$10.41	19.83%	\$7.03
PET	\$2,264.67	\$1,903.43	\$1,526.44	\$1,949.04	\$1,910.90	3.44%	\$65.77	1.89%	\$36.15
TIN	\$21.05	\$60.00	\$60.00	\$60.00	\$50.26	1.36%	\$0.69	3.54%	\$1.78
Residue					(\$67.25)	8.84%	(\$5.95)	7.40%	(\$4.98)
Single Stream Value per Ton						\$135.01		\$103.97	

## 2017 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2017 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$3,660.68	\$4,236.75	\$4,205.97	\$4,249.53	\$4,088.23	0.53%	\$21.83	0.23%	\$9.48
Cardboard	\$79.19	\$138.64	\$169.27	\$187.81	\$143.73	23.78%	\$34.18	34.65%	\$49.80
GLASS--Mixed	\$56.88	\$60.68	\$10.77	\$35.71	\$41.01	23.71%	\$9.72	18.56%	\$7.61
HDPE--Mixed	\$169.64	\$217.08	\$324.14	\$156.83	\$216.92	1.50%	\$3.25	1.27%	\$2.75
HDPE--Natural	\$503.61	\$163.61	\$293.81	\$492.20	\$363.31	0.60%	\$2.16	1.10%	\$3.98
LDPE--Mixed	\$22.46	\$14.54	\$28.36	\$0.00	\$16.34	3.71%	\$0.61	4.27%	\$0.70
METAL	\$50.38	\$63.12	\$81.02	\$81.36	\$68.97	2.00%	\$1.38	4.56%	\$3.15
Mixed Plastic	\$97.32	\$101.19	\$113.54	\$90.00	\$100.51	1.15%	\$1.16	2.70%	\$2.71
Newspaper	\$109.13	\$112.66	\$109.90	\$93.47	\$106.29	29.37%	\$31.22	19.83%	\$21.08
PET	\$1,797.85	\$1,896.28	\$1,916.88	\$1,862.71	\$1,868.43	3.44%	\$64.31	1.89%	\$35.35
TIN	\$42.71	\$45.26	\$64.79	\$73.37	\$56.53	1.36%	\$0.77	3.54%	\$2.00
Residue	\$0.00	\$0.00	\$0.00	\$0.00	(\$66.25)	8.84%	(\$5.86)	7.40%	(\$4.90)
Single Stream Value per Ton						\$164.73		\$133.71	

## 2016 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2016 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,220.94	\$3,801.35	\$4,238.99	\$4,341.62	\$4,150.73	0.53%	\$22.16	0.23%	\$9.63
Cardboard	\$123.57	\$115.73	\$104.16	\$111.18	\$113.66	23.78%	\$27.03	34.65%	\$39.38
GLASS--Mixed	\$51.97	\$58.02	\$63.50	\$53.36	\$56.71	23.71%	\$13.45	18.56%	\$10.53
HDPE--Mixed	\$411.79	\$350.71	\$223.13	\$205.90	\$297.88	1.50%	\$4.47	1.27%	\$3.78
HDPE--Natural	\$800.25	\$588.62	\$351.53	\$430.23	\$542.66	0.60%	\$3.23	1.10%	\$5.94
LDPE--Mixed	\$2.23	\$7.50	\$18.01	\$12.24	\$10.00	3.71%	\$0.37	4.27%	\$0.43
METAL	\$86.14	\$24.96	\$38.08	\$49.15	\$49.58	2.00%	\$0.99	4.56%	\$2.26
Mixed Plastic	\$105.97	\$76.94	\$61.86	\$85.96	\$82.68	1.15%	\$0.95	2.70%	\$2.23
Newspaper	\$84.13	\$69.51	\$73.31	\$88.34	\$78.82	29.37%	\$23.15	19.83%	\$15.63
PET	\$1,808.32	\$1,662.54	\$1,689.54	\$1,860.93	\$1,755.33	3.44%	\$60.42	1.89%	\$33.21
TIN	\$33.62	\$14.13	\$7.85	\$30.41	\$21.50	1.36%	\$0.29	3.54%	\$0.76
Residue					(\$65.25)	8.84%	(\$5.77)	7.40%	(\$4.83)
Single Stream Value per Ton						\$150.75		\$118.96	

## 2015 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2015 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$5,497.16	\$3,626.80	\$4,021.98	\$4,428.60	\$4,393.64	0.53%	\$23.46	0.23%	\$10.19
Cardboard	\$134.49	\$128.76	\$100.75	\$115.76	\$119.94	23.78%	\$28.52	34.65%	\$41.56
GLASS--Mixed	\$62.46	\$71.70	\$32.83	\$51.76	\$54.69	23.71%	\$12.97	18.56%	\$10.15
HDPE--Mixed	\$595.09	\$624.57	\$432.42	\$565.42	\$554.38	1.50%	\$8.32	1.27%	\$7.04
HDPE--Natural	\$946.72	\$959.16	\$525.56	\$644.22	\$768.92	0.60%	\$4.58	1.10%	\$8.42
LDPE--Mixed	\$96.07	\$54.25	\$76.30	\$126.16	\$88.20	3.71%	\$3.28	4.27%	\$3.77
METAL	\$140.24	\$134.79	\$81.96	\$63.95	\$105.24	2.00%	\$2.10	4.56%	\$4.80
Mixed Plastic	\$231.61	\$209.64	\$151.91	\$174.33	\$191.87	1.15%	\$2.21	2.70%	\$5.17
Newspaper	\$97.57	\$88.24	\$68.10	\$81.23	\$83.79	29.37%	\$24.61	19.83%	\$16.62
PET	\$1,600.08	\$1,788.94	\$1,575.21	\$1,710.16	\$1,668.60	3.44%	\$57.43	1.89%	\$31.57
TIN	\$150.20	\$127.25	\$80.05	\$30.17	\$96.92	1.36%	\$1.32	3.54%	\$3.43
Residue					(\$64.25)	8.84%	(\$5.68)	7.40%	(\$4.75)
Single Stream Value per Ton						\$163.11		\$137.96	



## 2014 AVERAGE QUARTERLY PRICING

Material	1st Quarter Average \$ Received	2nd Quarter Average \$ Received	3rd Quarter Average \$ Received	4th Quarter Average \$ Received	2014 Average Quarterly Pricing	Residential 3 Year Composition %	Average Price/Ton	Commercial 3 Year Composition %	Average Price/Ton
Aluminum	\$4,906.23	\$4,150.79	\$4,448.37	\$3,726.54	\$4,307.98	0.53%	\$23.00	0.23%	\$9.99
Cardboard	\$159.67	\$142.59	\$153.40	\$133.22	\$147.22	23.78%	\$35.01	34.65%	\$51.01
GLASS--Mixed	\$73.43	\$67.22	(\$28.87)	\$226.81	\$84.65	23.71%	\$20.07	18.56%	\$15.71
HDPE--Mixed	\$438.77	\$418.91	\$511.27	\$567.25	\$484.05	1.50%	\$7.26	1.27%	\$6.14
HDPE--Natural	\$715.32	\$681.07	\$804.71	\$733.34	\$733.61	0.60%	\$4.36	1.10%	\$8.03
LDPE--Mixed	\$5.47	\$1.47	\$14.26	\$35.11	\$14.08	3.71%	\$0.52	4.27%	\$0.60
METAL	\$153.74	\$164.98	\$146.66	\$141.95	\$151.83	2.00%	\$3.03	4.56%	\$6.93
Mixed Plastic	\$40.26	\$160.87	\$134.72	\$201.58	\$134.36	1.15%	\$1.55	2.70%	\$3.62
Newspaper	\$106.62	\$102.29	\$104.68	\$103.29	\$104.22	29.37%	\$30.61	19.83%	\$20.67
PET	\$1,545.39	\$1,588.17	\$1,528.83	\$1,544.85	\$1,551.81	3.44%	\$53.41	1.89%	\$29.36
TIN	\$143.89	\$151.89	\$152.99	\$150.20	\$149.74	1.36%	\$2.04	3.54%	\$5.29
Residue					(\$63.25)	8.84%	(\$5.59)	7.40%	(\$4.68)
Single Stream Value per Ton						\$175.29		\$152.69	

## EXPANSION LEVEL 1

AREA	BASELINE	EXPANSION LEVEL 1	TONS PROCESSED	TONS OVER BASELINE	TONS Within Expansion Level 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION LEVEL 1
Composting Area	40,670	51,215	97,396	56,726	10,545	33.33	\$ 351,488.38
Clean MRF	19,290	27,720	57,988	38,698	8,430	95.25	\$ 802,995.05
Wood Processing	3,970	5,760	8,861	4,891	1,790	28.59	\$ 51,176.09
Source Separated C&D Processing	16,620	19,493	19,654	3,034	2,873	22.25	\$ 63,913.67
<b>TOTALS</b>	<b>80,550</b>	<b>104,188</b>	<b>183,898</b>	<b>103,348</b>	<b>23,638</b>		<b>\$ 1,269,573.18</b>
<b>TONS IN EXPANSION LEVEL 1</b>					<b>23,638</b>		

## EXPANSION LEVEL 2

AREA	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER EXPANSION LEVEL 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION CAPACITY LEVEL 2
Composting Area	51,215	97,396	46,181	36.50	\$ 1,685,502.30
Clean MRF	27,720	57,988	30,268	98.42	\$ 2,978,969.31
Wood Processing	5,760	8,861	3,101	31.74	\$ 98,427.75
Source Separated C&D Processing	19,493	19,654	161	25.40	\$ 4,081.70
<b>TOTALS</b>	<b>104,188</b>	<b>183,898</b>	<b>79,710</b>		<b>\$ 4,766,981.07</b>
<b>TONS IN EXPANSION LEVEL 2</b>			<b>79,710</b>		

<b>TOTAL OB PAYMENT</b>	<b>\$ 6,036,554.25</b>
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EXPANSION LEVEL 1

AREA	BASELINE	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER BASELINE	TONS WITHIN Expansion Level 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION LEVEL 1
Composting Area	40,670	51,215	93,236	52,566	10,545	32.52	\$ 342,915.49
Clean MRF	19,290	27,720	50,361	31,071	8,430	92.93	\$ 783,409.81
Wood Processing	3,970	5,760	8,310	4,340	1,790	27.89	\$ 49,927.89
Source Separated C&D Processing	16,620	19,493	15,781	(839)	(839)	21.70	N/A
TOTALS	80,550	104,188	167,688	87,138	19,926		\$ 1,176,253.19
TONS IN EXPANSION LEVEL 1					19,926		

EXPANSION LEVEL 2

AREA	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER EXPANSION LEVEL 1 MAXIMUM	UNIT COST	TOTAL PAYMENT FOR EXPANSION CAPACITY LEVEL 2
Composting Area	51,215	93,236	42,021	35.61	\$ 1,496,270.63
Clean MRF	27,720	50,361	22,641	96.92	\$ 2,174,023.83
Wood Processing	5,760	8,310	2,550	30.97	\$ 78,955.73
Source Separated C&D Processing	19,493	15,781	#N/A	24.78	#N/A
TOTALS	104,188	167,688	#N/A		\$ 3,749,250.20
TONS IN EXPANSION LEVEL 2			67,212		

TOTALS PAYMENT DUE	\$ 4,925,503.39
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## EXPANSION LEVEL 1

AREA	BASELINE	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER BASELINE	TONS Within Expansion Level 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION LEVEL 1
Composting Area	40,670	51,215	87,310	46,640	10,545	30.17	\$ 318,103.42
Clean MRF	19,290	27,720	38,060	18,770	8,430	86.21	\$ 726,725.24
Wood Processing	3,970	5,760	10,527	6,557	1,790	25.87	\$ 46,315.30
Source Separated C&D Processing	16,620	19,493	19,081	2,461	2,461	20.13	49,543.88
<b>TOTALS</b>	<b>80,550</b>	<b>104,188</b>	<b>154,978</b>	<b>74,428</b>	<b>23,226</b>		<b>\$ 1,140,687.84</b>
<b>TONS IN EXPANSION LEVEL 1</b>					<b>23,226</b>		

## EXPANSION LEVEL 2

AREA	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER EXPANSION LEVEL 1 MAXIMUM	UNIT COST	TOTAL PAYMENT FOR EXPANSION CAPACITY LEVEL 2
Composting Area	51,215	87,310	36,095	33.03	\$ 1,192,277.26
Clean MRF	27,720	38,060	10,340	89.07	\$ 921,038.13
Wood Processing	5,760	10,527	4,767	28.73	\$ 136,941.52
Source Separated C&D Processing	19,493	19,081	#N/A	22.99	#N/A
<b>TOTALS</b>	<b>104,188</b>	<b>154,978</b>	<b>#N/A</b>		<b>\$ 2,250,256.91</b>
<b>TONS IN EXPANSION LEVEL 2</b>			<b>51,203</b>		

<b>TOTAL OF PAYMENT</b>	<b>\$ 3,390,944.75</b>
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CY2020 OVER BASELINE

EXPANSION LEVEL 1							
AREA	BASELINE	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER BASELINE	TONS Within Expansion Level 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION LEVEL 1
Composting Area	40,670	51,215	87,549	46,879	10,545	28.33	\$ 298,688.66
Clean MRF	19,290	27,720	43,743	24,453	8,430	80.95	\$ 682,371.12
Wood Processing	3,970	5,760	7,684	3,714	1,790	24.30	\$ 43,488.54
Source Separated C&D Processing	16,620	19,493	19,956	3,336	2,873	18.90	54,312.71
TOTALS	80,550	104,188	158,933	78,383	23,638		\$ 1,078,861.03
TONS IN EXPANSION LEVEL 1					23,638		

EXPANSION LEVEL 2					
AREA	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER EXPANSION LEVEL 1 MAXIMUM	UNIT COST	TOTAL PAYMENT FOR EXPANSION CAPACITY LEVEL 2
Composting Area	51,215	87,549	36,334	31.02	\$ 1,126,911.26
Clean MRF	27,720	43,743	16,023	83.64	\$ 1,340,099.25
Wood Processing	5,760	7,684	1,924	26.97	\$ 51,907.65
Source Separated C&D Processing	19,493	19,956	463	21.58	\$ 9,994.72
TOTALS	104,188	158,933	54,745		\$ 2,528,912.88
TONS IN EXPANSION LEVEL 2			54,281		

TOTAL OB PAYMENT DUE	\$ 3,607,773.91
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## CY 2019 OVER BASELINE

## EXPANSION LEVEL 1

AREA	BASELINE	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER BASELINE	TONS Within Expansion Level 1	UNIT COST	TOTAL PAYMENT FOR EXPANSION LEVEL 1
Composting Area	40,670	51,215	97,013	56,343	10,545	27.93	\$ 294,564.75
Clean MRF	19,290	27,720	51,291	32,001	8,430	79.83	\$ 672,949.82
Wood Processing	3,970	5,760	8,414	4,444	1,790	23.96	\$ 42,888.11
Source Separated C&D Processing	16,620	19,493	18,131	1,511	1,511	18.64	28,166.82
<b>TOTALS</b>	<b>80,550</b>	<b>104,188</b>	<b>174,848</b>	<b>94,298</b>	<b>22,276</b>		<b>\$ 1,038,569.50</b>
<b>TONS IN EXPANSION LEVEL 1</b>					<b>22,276</b>		

## EXPANSION LEVEL 2

AREA	EXPANSION LEVEL 1 MAXIMUM	TONS PROCESSED	TONS OVER EXPANSION LEVEL 1 MAXIMUM	UNIT COST	TOTAL PAYMENT FOR EXPANSION CAPACITY LEVEL 2
Composting Area	51,215	97,013	45,798	30.59	\$ 1,400,811.72
Clean MRF	27,720	51,291	23,571	82.48	\$ 1,944,176.97
Wood Processing	5,760	8,414	2,654	26.60	\$ 70,595.03
Source Separated C&D Processing	19,493	18,131	#N/A	21.29	N/A
<b>TOTALS</b>	<b>104,188</b>	<b>174,848</b>	<b>#N/A</b>		<b>\$ 3,415,583.72</b>
<b>TONS IN EXPANSION LEVEL 2</b>			<b>72,023</b>		

<b>TOTAL OB PAYMENT DUE</b>	<b>\$ 4,454,153.22</b>
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## 3rd Party Single Stream CY 2022

Row Labels	Sum of TONS	Sum of AMT
<b>NORTHERN RECOLOGY SONOMA COUNT</b>	<b>7,830.89</b>	<b>\$199,790.05</b>
SINGLE STREAM RECYCL	7,830.89	\$199,790.05
<b>NORTHERN RECYCLING- CAL WASTE</b>	<b>191.19</b>	<b>\$4,779.75</b>
SINGLE STREAM RECYCL	191.19	\$4,779.75
<b>NORTHERN RECYCLING - VALLEJO</b>	<b>222.21</b>	<b>\$5,575.75</b>
SINGLE STREAM RECYCL	222.21	\$5,575.75
<b>NRWS - BERRYESSA GARBAGE</b>	<b>131.67</b>	<b>\$3,445.08</b>
CARDBOARD	4.39	\$184.38
SINGLE STREAM RECYCL	127.28	\$3,260.70
<b>NRWS - EL CERRITO</b>	<b>3,561.63</b>	<b>\$92,014.76</b>
SINGLE STREAM RECYCL	3,561.63	\$92,014.76
<b>NRWS - PARADISE</b>	<b>1,335.90</b>	<b>\$34,660.10</b>
SINGLE STREAM RECYCL	1,335.90	\$34,660.10
<b>NRWS - SONOMA GARBAGE</b>	<b>2,853.37</b>	<b>\$47,001.28</b>
CARDBOARD	131.85	\$5,929.70
MIXED CRV CONTAINERS	223.67	-\$23,485.35
SINGLE STREAM RECYCL	2,497.85	\$64,556.93
<b>PACIFIC SANITATION N.</b>	<b>81.32</b>	<b>\$2,033.00</b>
SINGLE STREAM RECYCL	81.32	\$2,033.00
<b>Grand Total</b>	<b>16,208.17</b>	<b>\$389,299.77</b>

