



HOUSATONIC RESOURCES RECOVERY AUTHORITY
Monday, February 25, 2019, 10:30 a.m.
Room 133 Brookfield Town Hall
100 Pocono Rd, Brookfield, CT 06804

AGENDA

1. Call to order, determination of quorum, pledge of allegiance
2. Public comment
3. Chairman and members' comments
4. Director's and tonnage reports (*Attachment A*)
5. Administrative approvals
 - a. *Minutes of December 07, 2018 (*Attachment B*)
 - b. *Financial statements through January 30, 2019 (*Attachment C*)
6. Old business
 - a. Recycling Market Update (*Attachment D*)
 - b. Glass Pilot Program update
7. New business
 - a. *Request for a Regional Recycling Coordinator
 - b. *Oak Ridge Request to increase the tip fee July 1, 2019
Executive session anticipated for this item.
8. *Adjournment

**Possible action items*

cc: HRRRA members and alternates
Town clerks and FOI list



HRRRA Director's Report December 2018 – January 30, 2019

MSW and Recycling Tonnage Reports

- The MSW and recycling tonnage reports through January 30th are attached.
- MSW tonnage year to date is running at **105%** compared to the same time last year. The HRRRA was at 114% of the Put or Pay during the 2018 calendar year.
- Recycling tonnage is running at **71%** compared to the same time last year. A significant drop is due to All American Waste pulling all curbside recycling out of the region to their own facility.
- E-waste tonnage is running at **94%** compared to the same time last year.

Public Education

There were 2 Public education programs conducted since the last HRRRA meeting which included 2 schools, 4 classrooms, and 50 students.

- Kent – Kent Center School
- Danbury – Pathways Academy

T. Carlson met with the following schools and their administration to implement cafeteria and classroom recycling.

- Whisconier Middle School, Brookfield and Western CT AIS Magnet School, Danbury

Meetings /Activities from December 15 – January 30th

- J. Heaton-Jones has continued to participate in the NERC's Regional Recycling Markets Committee monthly calls and Glass Committee calls.
- R. Marconi, M. Knickerbocker and J. Heaton-Jones met with Oak Ridge in early January to discuss the implementation of the regional glass pilot program and the proposed contamination fees. After much discussion it was determined the first step was starting with a small sample of towns for 90 days to see how residents would handle the transition and what experience each transfer station operators experienced. They chose Bethel, Redding and Ridgefield. The glass containers were delivered on February 1st. HRRRA provided brochures and signage.
- J. Heaton-Jones has continued to participate in a coalition of government entities that handle HHW. They are discussing vendor options and cost.
- Staff reviewed and provided feedback for the towns of Redding and Sherman on updated local recycling ordinance using HRRRA Model ordinance as reference.
- The HRRRA issued an RFP for HHW on February 1st. The proposals are due March 1st.
- J. Heaton-Jones and T. Carlson participated in Westport's Live Green event in January on Best Practices and Solutions for Reducing Recycling Contamination and Minimizing Municipal Cost.
- HRRRA offered a Composting Class in mid January. Staff will continue to offer classes once a month as long as the CT DEEP resources are still available.
- Staff attended the January Solid Waste Advisory Committee meeting at CT DEEP.

HRRRA Director's Report Continued

- Staff took advantage of several webinars the last few months to further education.
- J. Heaton-Jones has participated in several Product Stewardship Institute calls that have focused on legislative initiatives for EPR for Packaging and HHW.
- The Executive Committee and Negotiating Team have been meeting to review and discuss a request from Oak Ridge to increase the MSW tip fee on July 1, 2019.
- J. Heaton-Jones participated in a Stakeholder meeting for the Bottle Bill at the LOB in Hartford. The meeting was one of several to come to discuss and work out the party differences. Stakeholders included Redemption Centers, The Food Association (Grocery Store), Wine and Spirit Associations, Distributors, Government Agencies and State Representatives.
- J. Heaton-Jones recently presented the HRRRA glass pilot program at the annual CT Recyclers Coalition Conference at the Aqua Turf and participated on a panel that discussed the challenges municipalities are having with the material, the market and public education.
- At the end of February, the HRRRA Director will participate in a state wide discussion on the States Comprehensive Material Management Strategy and the Municipal Perspective.
- The HRRRA will be issuing an RFP for E-Waste on March 1st.
- The annual Recycling Billboard Contest ceremony is scheduled for April 24th.
- The next HRRRA meeting is scheduled for Monday, April 22nd at Brookfield Town Hall.

Rate escalation formula Wheelabrator Bridgeport,LP 2017 (estimate) worksheet for HRRRA:

Per Section V(1) WSDA Service Fees:

<u>FEES</u>	<u>2004</u>	<u>2018 act</u>	<u>2019</u>	<u>Increase</u>
Tip Fee	\$ 61.41	\$ 71.80	\$ 72.41	
Transfer Fee	\$ 7.49	\$ 8.76	\$ 8.83	
Transportation Fee	\$ 5.06	\$ 5.92	\$ 5.97	
Program Fee (a)	\$ 0.55	\$ 1.00	\$ 1.00	
Total Fee	\$ 74.51	\$ 87.47	\$ 88.21	\$ 0.74

invoiced rate

<u>(a) Program fee</u>	<u>2004</u>
basis budget	\$ 91,500
program fee collected	\$ 93,853
basis tons (est)	
actual tons	170,641

<u>CPI change</u>	<u>2004</u>	<u>2018 act</u>	<u>2019</u>
January	195.9	262.188	266.109
index change from base yr		66.29	70.21
100% change		33.838%	35.839%
percent cpi change from base yr		33.838%	35.839%
multiplier @ 50%		116.919%	117.920%

Program Fee Base \$ 91,500.00
Paid HRRRA

HRRRA/Wheelabrator - MSW Tonnage

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD as % of Prior YTD
Jan	10,412.62	10,204.23	10,816.98	10,909.90	9,521.05	8,709.97	8,193.26	9,060.62	10,256.78	10,745.50	
Feb	9,082.72	9,656.34	9,759.96	8,305.92	7,648.06	7,070.96	7,626.85	7,535.47	8,841.09		
Mar	12,008.02	11,809.91	10,632.01	9,199.49	8,507.43	8,415.64	9,077.68	8,584.21	9,868.75		
Apr	13,461.21	11,212.42	10,269.20	10,373.68	10,330.16	8,796.55	8,669.38	8,853.20	10,547.05		
May	11,285.47	12,081.01	11,825.87	11,536.19	10,632.45	10,095.92	9,103.14	10,209.07	11,650.66		
Jun	12,956.37	12,998.70	11,246.95	11,665.08	9,908.25	10,776.39	9,977.93	10,055.20	11,361.23		
Jul	12,118.43	11,142.45	11,818.05	11,885.87	11,457.12	10,613.73	8,978.65	9,650.28	11,654.85		
Aug	12,195.33	12,835.18	12,154.61	10,442.51	9,504.43	9,308.83	10,088.70	10,065.10	12,294.98		
Sep	11,601.53	12,916.11	10,816.64	10,090.83	9,830.16	9,562.86	9,024.18	9,569.14	10,565.45		
Oct	11,516.97	11,226.64	11,417.38	11,022.28	10,320.11	9,101.82	8,877.85	9,696.31	11,969.58		
Nov	11,829.98	12,497.05	12,158.28	9,445.19	8,872.00	9,051.83	9,570.73	10,864.04	11,660.40		
Dec	11,949.55	11,610.69	10,727.36	10,068.41	10,111.75	9,176.60	9,434.03	9,925.42	10,606.23		
Total Tons YTD	140,418.20	140,190.73	133,643.29	124,945.35	116,642.97	110,681.10	108,622.38	114,068.06	131,277.05	10,745.50	105%
% of WSDA Benchmark Annual Tonnage (115,284)	122%	122%	116%	108%	101%	96%	94%	99%	114%		

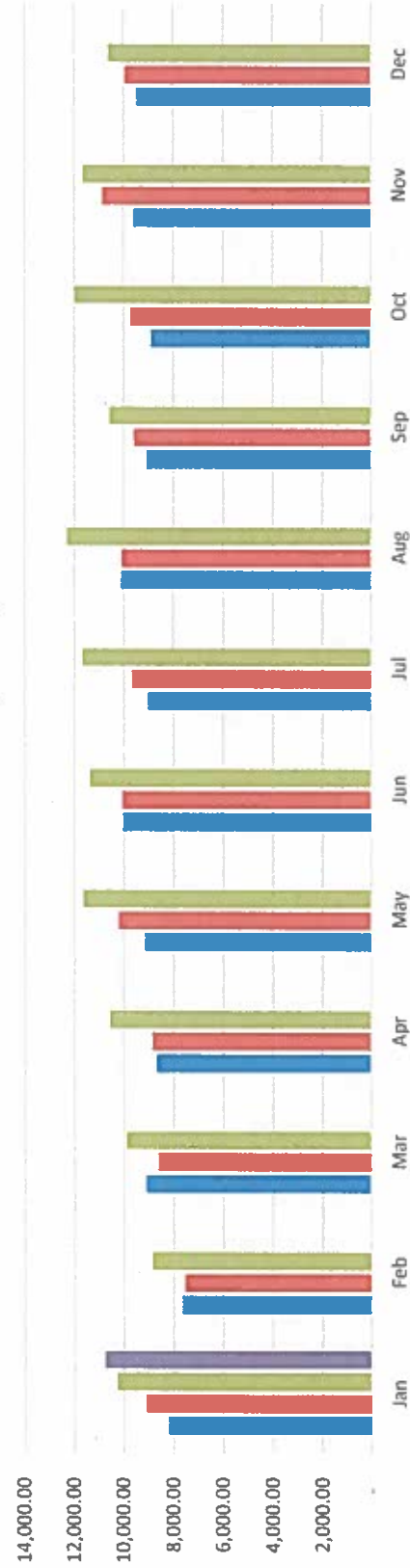
HRRRA/WES MSW Program Fee

	Calendar 2010	Calendar 2011	Calendar 2012	Calendar 2013	Calendar 2014	Calendar 2015	Calendar 2016	Calendar 2017	Calendar 2018	
Program Fee Earned YTD	\$96,888.56	\$107,946.86	\$102,905.33	\$98,706.83	\$94,480.81	\$110,681.10	\$108,622.38	\$114,068.06	\$131,277.05	
Program Fee Pd To HRRRA YTD	\$92,369.68	\$107,522.00	\$102,905.00	\$98,707.00	\$94,481.00	\$111,729.59	\$110,343.05	\$102,954.28	\$104,049.00	
Annual Contract Program Fee	\$99,999.00	\$100,858.00	\$102,472.00	\$103,498.00	\$104,379.00	\$104,138.00	\$104,540.50	\$106,020.00	\$106,980.74	
Total Over/Under Prog Fee	Settled 12/31/10	\$6,664.00	\$433.00	-\$4,791.00	-\$9,898.00	\$7,591.59	\$5,802.55	-\$3,065.72	-\$2,931.74	

HRRAWheelabrator - MSW Tonnage Year-to-Date

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD as % of Prior YTD
Jan	10,412.62	10,204.23	10,816.98	10,909.90	9,521.05	8,709.97	8,193.26	9,060.62	10,256.78	10,745.50	
Feb	9,082.72	9,656.34	9,759.96	8,305.92	7,648.06	7,070.96	7,626.85	7,535.47	8,841.09		
Mar	12,008.02	11,809.91	10,632.01	9,199.49	8,507.43	8,415.64	9,077.68	8,584.21	9,868.75		
Apr	13,461.21	11,212.42	10,269.20	10,373.68	10,330.16	8,796.55	8,669.38	8,853.20	10,547.05		
May	11,285.47	12,081.01	11,825.87	11,536.19	10,632.45	10,095.92	9,103.14	10,209.07	11,650.66		
Jun	12,956.37	12,998.70	11,246.95	11,665.08	9,908.25	10,776.39	9,977.93	10,055.20	11,361.23		
Jul	12,118.43	11,142.45	11,818.05	11,885.87	11,457.12	10,613.73	8,978.65	9,650.28	11,654.85		
Aug	12,195.33	12,835.18	12,154.61	10,442.51	9,504.43	9,308.83	10,088.70	10,065.10	12,294.98		
Sep	11,601.53	12,916.11	10,816.64	10,090.83	9,830.16	9,562.86	9,024.18	9,569.14	10,565.45		
Oct	11,516.97	11,226.64	11,417.38	11,022.28	10,320.11	9,101.82	8,877.85	9,696.31	11,969.58		
Nov	11,829.98	12,497.05	12,158.28	9,445.19	8,872.00	9,051.83	9,570.73	10,864.04	11,660.40		
Dec	11,949.55	11,610.69	10,727.36	10,068.41	10,111.75	9,176.60	9,434.03	9,925.42	10,606.23		
Total Tons YTD	140,418.20	140,190.73	133,643.29	124,945.35	116,642.97	110,681.10	108,622.38	114,068.06	131,277.05	10,745.50	105%
% of WSDA Benchmark Tonnage (115,284)											

MSW Tonnage - CY 2016, 2017, 2018, 2019



Transfer Station Tonnage By Month/Year

	Newtown TS			Danbury TS			Ridgefield TS			Total HRRR TS		
	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018
January	803.79	950.27	982.59	6,606.53	7,462.73	8,405.51	782.94	647.62	868.68	8,193.26	9,060.62	10,256.78
February	781.73	800.21	855.90	6,159.69	6,090.42	7,334.32	685.43	644.79	650.87	7,626.85	7,535.42	8,841.09
March	927.90	870.68	906.25	7,230.78	7,013.76	8,198.48	919.00	699.77	764.02	9,077.68	8,584.21	9,868.75
April	901.22	961.32	978.02	6,864.01	7,011.09	8,663.24	904.15	880.79	905.79	8,669.38	8,853.20	10,547.05
May	976.24	1,079.50	1,012.80	7,146.44	8,231.91	9,774.37	980.46	897.66	863.49	9,103.14	10,209.07	11,650.66
June	1,054.19	1,094.92	1,144.93	7,796.85	7,970.15	9,238.29	1,126.89	990.13	978.01	9,977.93	10,055.20	11,361.23
July	1,002.85	1,039.78	1,103.59	7,040.11	7,693.25	9,728.22	935.69	917.25	823.04	8,978.65	9,650.28	11,654.85
August	1,052.01	1,078.03	1,103.31	8,291.78	8,056.60	10,341.61	744.91	930.47	850.06	10,088.70	10,065.10	12,294.98
September	939.80	1,012.80	1,022.77	7,355.58	7,692.85	8,747.68	728.80	863.49	794.00	9,024.18	9,569.14	10,564.45
October	926.41	976.78	1,101.46	7,333.52	7,796.18	9,916.47	617.92	923.35	951.65	8,877.85	9,696.31	11,969.58
November	1,018.74	1,071.60	1,065.06	7,827.14	8,828.15	9,708.42	724.85	964.29	886.92	9,570.73	10,864.04	11,660.40
December	1,003.34	993.69	1,025.22	7,745.49	8,141.78	8,733.40	685.20	789.95	847.61	9,434.03	9,925.42	10,606.23
Total YTD	11,388.22	11,929.58	12,301.90	87,397.92	91,988.87	108,790.01	9,836.24	10,149.56	10,184.14	108,622.38	114,068.01	131,276.05
% of Total Tonnage	10.5%	10.5%	9.4%	80.5%	80.6%	82.9%	9.1%	8.9%	7.8%	100%	100%	100.0%
	Newtown TS			Danbury TS			Ridgefield TS			Total HRRR TS		

HRRR/Regional Recycling Facility Tonnage

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 YTD as % of 2018 YTD
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	
Feb	534	630	566	616	537	656	566	756	759	888	705	954		
Mar	692	675	593	742	558	715	652	869	901	1,045	769	1,112		
Apr	697	604	606	727	518	693	600	995	988	987	768	1,089		
May	738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181		
Jun	709	637	832	607	640	790	647	1,010	1,059	887	875	1,163		
Jul	681	660	823	543	616	745	975	1,043	1,070	864	808	1,176		
Aug	755	609	753	562	721	811	980	975	979	1,037	937	1,202		
Sep	638	639	763	563	708	691	998	1,050	1,016	888	986	1,023		
Oct	746	639	742	540	656	684	956	1,043	949	832	920	645		
Nov	791	640	804	569	715	737	868	915	1,025	895	861	754		
Dec	775	837	866	653	801	677	982	1,180	1,229	995	901	681		
Total Tons YTD	8,437	7,988	8,702	7,567	7,608	8,670	9,618	11,869	11,972	11,361	10,217	11,964	700	71%

2016 - 2017 - 2018 - 2019 Recycling Tonnage



HRRR/Regional Recycling Facility Tonnage

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 YTD as % of 2018 YTD
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	
Feb	534	630	566	616	537	656	566	756	759	888	705	954		
Mar	692	675	593	742	558	715	652	869	901	1,045	769	1,112		
Apr	697	604	606	727	518	693	600	995	988	997	768	1,089		
May	738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181		
Jun	709	637	832	607	640	790	647	1,010	1,059	887	875	1,163		
Jul	681	660	823	543	616	745	975	1,043	1,070	864	808	1,176		
Aug	755	609	753	562	721	811	990	975	979	1,037	937	1,202		
Sep	638	639	763	563	708	691	998	1,050	1,016	888	986	1,023		
Oct	746	639	742	540	656	684	956	1,043	949	832	920	645		
Nov	791	640	804	569	715	737	868	915	1,025	895	861	754		
Dec	775	837	866	653	801	677	982	1,180	1,229	995	901	681		
Total Tons YTD	8,437	7,988	8,702	7,567	7,608	8,670	9,618	11,869	11,972	11,351	10,217	11,964	700	71%

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	FY YTD
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	
Feb	534	630	566	616	537	656	566	756	759	888	705	954		
Mar	692	675	593	742	558	715	652	869	901	1,045	769	1,112		
Apr	697	604	606	727	518	693	600	995	988	997	768	1,089		
May	738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181		
Jun	709	637	832	607	640	790	647	1,010	1,059	887	875	1,163		
Jul	681	660	823	543	616	745	975	1,043	1,070	864	808	1,176		
Aug	755	609	753	562	721	811	980	975	979	1,037	937	1,202		
Sep	638	639	763	563	708	691	998	1,050	1,016	888	986	1,023		
Oct	746	639	742	540	656	684	956	1,043	949	832	920	645		
Nov	791	640	804	569	715	737	868	915	1,025	895	861	754		
Dec	775	837	866	653	801	677	982	1,180	1,229	995	901	681		
Total Tons YTD	8,437	7,988	8,702	7,567	7,608	8,670	9,618	11,869	11,972	11,351	10,217	11,964	700	97%

HRRR Recycling Rebate History

	CY 2016		CY 2017		2017 YTD as % of 2016 YTD		CY 2018		2018 YTD as % of 2017 YTD		CY 2019		2019 YTD as % of 2018 YTD	
	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate
Jan	986	\$9,860.00	872	\$4,360.00	\$5,500.00	983	\$6,144.38	864	\$4,320.00	\$1,784.38	700	\$5,247.08		-\$897.30
Feb	888	\$8,880.00	705	\$3,525.00	-\$5,355.00	954	\$5,963.19	954	\$5,963.19	\$2,438.19				
Mar	1,045	\$10,450.00	769	\$3,845.00	-\$6,605.00	1,112	\$6,949.69	1,112	\$6,949.69	\$3,104.69				
Apr	997	\$4,985.00	768	\$3,841.10	-\$1,143.90	1,089	\$6,808.41	1,089	\$6,808.41	\$2,967.31				
May	1,037	\$5,185.00	815	\$4,075.00	-\$1,110.00	1,181	\$7,382.31	1,181	\$7,382.31	\$3,307.31				
Jun	887	\$4,435.00	875	\$4,375.00	-\$60.00	1,163	\$7,270.88	1,163	\$7,270.88	\$2,895.88				
Jul	864	\$4,320.00	808	\$6,060.00	\$1,740.00	1,176	\$8,822.93	1,176	\$8,822.93	\$2,762.93				
Aug	1,037	\$5,185.00	937	\$7,027.50	\$1,842.50	1,202	\$9,017.40	1,202	\$9,017.40	\$1,989.90				
Sep	888	\$4,440.00	986	\$7,395.68	\$2,955.68	1,023	\$7,671.23	1,023	\$7,671.23	\$275.55				
Oct	832	\$4,160.00	920	\$6,902.48	\$2,742.48	645	\$4,837.65	645	\$4,837.65	-\$2,064.83				
Nov	895	\$4,475.00	861	\$5,378.44	\$903.44	754	\$5,651.48	754	\$5,651.48	\$273.04				
Dec	995	\$4,975.00	901	\$5,632.00	\$657.00	681	\$5,108.70	681	\$5,108.70	-\$523.30				
Total Tons YTD	11,351	\$71,350.00	10,217	\$62,417.19	-\$8,932.81	11,964	\$81,628.22	11,964	\$81,628.22	\$19,211.03	700	\$5,247.08	700	\$5,247.08

	FY 2016-2017		FY 2017-18		FY 2018-19	
	Tonnage	Rebate	Tonnage	Rebate	Tonnage	Rebate
July	864		808		1,176	
August	1,037		937		1,202	
September	888		986		1,023	
October	832		920		645	
November	895		861		754	
December	995		901		681	
January	872		983		700	
February	705		954			
March	769		1,112			
April	768		1,089			
May	815		1,181			
June	875		1,163			
Total	10,315	\$11,896	11,896	\$6,181	6,181	\$97%
Total Tons YTD	\$51,576.10	\$78,914.93	\$46,356.45	\$104%		

Ewaste Tonnage

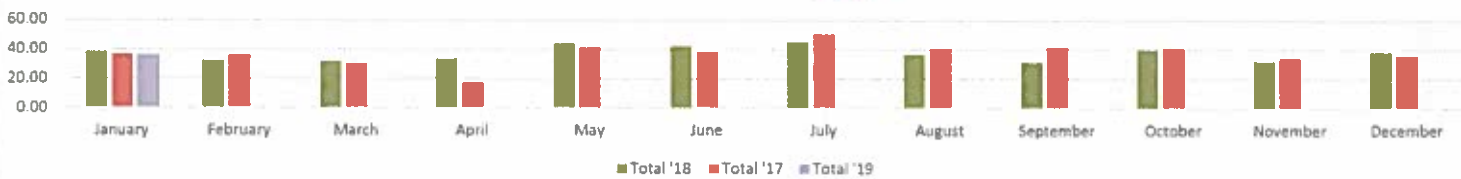
2017	Bethel	Bridgewater	Danbury	Kent	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total '17	Total '16	Total '15
January	1.69	0.00	9.36	0.00	2.60	5.96	7.84	3.03	6.18	36.65	50.83	42.46
February	3.26	1.37	6.80	2.02	2.57	4.85	7.80	1.93	5.24	35.83	36.08	18.54
March	1.99	0.00	7.60	0.00	1.87	6.73	5.99	1.00	4.53	29.71	33.69	25.81
April	1.49	1.49	0.75	2.00	2.05	2.35	2.42	1.98	1.98	16.50	48.56	36.48
May	2.63	1.87	10.89	1.68	1.64	6.15	8.21	1.42	6.60	41.07	43.87	55.22
June	0.54	1.53	9.94	0.00	2.64	6.96	8.03	1.96	6.71	38.31	43.20	52.39
July	2.17	0.00	12.47	2.72	4.06	6.58	12.02	3.31	6.55	49.88	47.71	43.35
August	2.44	0.00	9.43	2.68	0.00	8.27	9.68	1.29	6.43	40.22	50.27	49.90
September	2.39	1.02	9.23	0.00	3.68	7.26	7.69	2.25	8.16	41.69	46.43	42.39
October	2.10	0.80	8.98	2.35	2.28	6.23	11.48	1.22	5.37	40.81	45.21	57.83
November	0.09	2.38	7.31	?	3.44	4.68	8.24	0.60	7.03	33.77	39.10	34.93
December	2.05	0.00	6.44	0.00	3.76	6.82	6.99	3.13	6.24	35.43	50.74	47.47
Total Tons	22.82	10.46	99.20	13.44	30.58	72.84	96.38	23.12	71.02	439.85	535.68	506.76

2018	Bethel	Bridgewater	Danbury	Kent	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total '18	Total '17	Total '16
January	1.62	1.21	11.28	2.62	1.13	4.75	9.38	1.95	4.30	38.24	36.65	50.83
February	2.81	0.00	6.42	0.00	3.21	4.64	7.27	1.97	5.30	31.63	35.83	36.08
March	1.43	1.00	5.64	1.76	1.47	7.82	7.02	1.57	4.34	32.05	29.71	33.69
April	1.43	0.00	9.35	0.00	1.94	4.24	8.56	1.78	5.44	32.74	16.50	48.56
May	1.64	1.49	16.01	2.54	1.53	5.42	7.62	1.28	6.26	43.79	41.07	43.87
June	2.05	1.01	11.73	0.00	2.07	6.68	8.46	2.28	7.89	42.17	38.31	43.20
July	4.15	1.13	9.53	1.92	2.15	5.83	11.23	3.35	5.84	45.13	49.88	47.71
August	2.81	0.00	6.94	2.11	1.63	5.61	9.10	1.51	6.75	36.46	40.22	50.27
September	2.26	1.44	5.22	0.00	1.95	4.98	8.41	1.24	5.75	31.25	41.69	46.43
October	2.28	0.00	10.62	2.35	2.44	4.26	8.33	3.50	6.17	39.95	40.81	45.21
November	1.72	1.53	4.61	0.00	2.93	6.00	7.93	1.18	5.53	31.43	33.77	39.10
December	2.47		7.44	2.49	2.62	5.33	10.13	1.62	6.25	38.35	35.43	50.74
Total Tons	26.67	8.81	104.79	15.78	25.07	65.57	103.44	23.24	69.82	443.18	439.85	535.68
	BE	BW	DA	KE	NF	NM	NE	RE	RI	Total '18	Total '17	Total '16

2019	Bethel	Bridgewater	Danbury	Kent	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total '19	Total '18	Total '17
January	2.91	1.50	7.73	0.00	2.02	4.34	9.29	2.41	5.71	35.91	38.24	36.65
February											31.63	35.83
March											32.05	29.71
April											32.74	16.50
May											43.79	41.07
June											42.17	38.31
July											45.13	49.88
August											36.46	40.22
September											31.25	41.69
October											39.95	40.81
November											31.43	33.77
December												
Total Tons	2.91	1.50	7.73	0.00	2.02	4.34	9.29	2.41	5.71	35.91	404.84	404.44
	BE	BW	DA	KE	NF	NM	NE	RE	RI	Total '19	Total '18	Total '17

94%
19' v 18'

E-Waste 2019, 2018, 2017



E-waste Payments by Municipality by Quarter

2015	Bethel	Bridgewater	Danbury	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total
Jan - Mar 2015	\$ 266.46	\$ -	\$ 1,276.32	\$ 231.90	\$ 518.76	\$ 864.39	\$ 299.70	\$ 730.62	\$ 4,188.15
Apr - Jun 2015	\$ 449.73	\$ 183.51	\$ 1,617.12	\$ 509.40	\$ 808.83	\$ 1,373.91	\$ 445.26	\$ 960.03	\$ 6,347.79
Jul - Sept 2015	\$ 382.38	\$ 40.80	\$ 1,462.95	\$ 466.89	\$ 1,335.24	\$ 1,458.39	\$ 280.62	\$ 989.13	\$ 6,416.40
Oct - Dec 2015	\$ 426.03	\$ 124.11	\$ 1,091.97	\$ 402.03	\$ 1,171.20	\$ 1,549.11	\$ 284.76	\$ 1,117.98	\$ 6,167.19
Total	\$ 1,524.60	\$ 348.42	\$ 5,448.36	\$ 1,610.22	\$ 3,834.03	\$ 5,245.80	\$ 1,310.34	\$ 3,797.76	\$ 23,119.53
2016	Bethel	Bridgewater	Danbury	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total
Jan - Mar 2016	\$ 322.89	\$ 55.74	\$ 1,402.47	\$ 386.31	\$ 788.01	\$ 1,383.15	\$ 356.37	\$ 1,065.03	\$ 5,759.97
Apr - Jun 2016	\$ 318.54	\$ 204.62	\$ 1,649.40	\$ 415.50	\$ 1,107.27	\$ 1,437.81	\$ 314.25	\$ 1,054.62	\$ 6,502.01
Jul - Sept 2016	\$ 373.11	\$ 120.30	\$ 2,021.58	\$ 510.81	\$ 1,238.55	\$ 1,326.63	\$ 277.83	\$ 1,281.06	\$ 7,149.87
Oct - Dec 2016	\$ 279.54	\$ 102.63	\$ 2,048.22	\$ 459.78	\$ 937.14	\$ 1,497.87	\$ 233.46	\$ 1,144.08	\$ 6,702.72
Reconciliation Check	\$ 543.90	\$ 185.78	\$ 3,391.50	\$ 781.33	\$ 1,727.86	\$ 2,353.75	\$ 426.08	\$ 2,020.95	\$ 11,431.15
Total	\$ 1,837.98	\$ 669.07	\$ 10,513.17	\$ 2,553.73	\$ 5,798.83	\$ 7,999.21	\$ 1,607.99	\$ 6,565.74	\$ 37,545.72
2017	Bethel	Bridgewater	Danbury	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total
Jan - Mar 2017	\$ 289.65	\$ 44.49	\$ 1,288.02	\$ 324.99	\$ 971.97	\$ 1,168.32	\$ 226.32	\$ 832.89	\$ 5,146.65
Apr - Jun 2017	\$ 221.94	\$ 169.98	\$ 1,614.30	\$ 362.10	\$ 998.55	\$ 1,434.27	\$ 274.20	\$ 844.62	\$ 5,919.96
Jul - Sept 2017	\$ 279.36	\$ 44.91	\$ 1,601.49	\$ 482.82	\$ 1,026.84	\$ 1,326.39	\$ 297.78	\$ 996.75	\$ 6,056.34
Oct - Dec 2017	\$ 222.00	\$ 60.84	\$ 1,176.03	\$ 425.37	\$ 980.58	\$ 1,295.73	\$ 242.16	\$ 866.10	\$ 5,268.81
Reconciliation Check	\$ 844.13	\$ 225.53	\$ 4,694.50	\$ 1,329.40	\$ 3,314.95	\$ 4,313.75	\$ 822.28	\$ 3,006.10	\$ 18,550.64
Total	\$ 1,857.08	\$ 545.75	\$ 10,374.34	\$ 2,924.68	\$ 7,292.89	\$ 9,538.46	\$ 1,862.74	\$ 6,546.46	\$ 40,942.40
2018	Bethel	Bridgewater	Danbury	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total
Jan - Mar 2018	\$ 450.96	\$ 135.03	\$ 2,179.36	\$ 457.63	\$ 1,683.71	\$ 1,961.33	\$ 444.74	\$ 1,154.32	\$ 8,467.08
Apr - Jun 2018	\$ 341.46	\$ 150.32	\$ 3,301.63	\$ 441.00	\$ 1,575.45	\$ 2,051.09	\$ 608.42	\$ 1,568.42	\$ 10,037.79
Jul - Sept 2018	\$ 734.86	\$ 182.50	\$ 2,000.47	\$ 434.52	\$ 1,595.82	\$ 2,307.23	\$ 467.18	\$ 1,568.13	\$ 9,290.71
Oct - Dec 2018	\$ 514.09	\$ -	\$ 2,153.33	\$ 645.66	\$ 1,511.17	\$ 2,341.49	\$ 330.99	\$ 1,492.79	\$ 8,989.52
Total	\$ 2,041.37	\$ 467.85	\$ 9,634.79	\$ 1,978.81	\$ 6,366.15	\$ 8,661.14	\$ 1,851.33	\$ 5,783.66	\$ 36,785.10
2019	Bethel	Bridgewater	Danbury	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total
Jan - Mar 2019									
Apr - Jun 2019									
Jul - Sept 2019									
Oct - Dec 2019									
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



HOUSATONIC RESOURCES RECOVERY AUTHORITY
REGULAR MEETING MINUTES

Friday, December 7, 2018, 10:00 a.m.
Danbury Crowne Plaza, 2nd Floor Onyx Room
18 Old Ridgebury Road, Danbury, CT 06810

Members or Alternates Present

Bethel, Matthew Knickerbocker	8
Brookfield, Sheldon Conn	7
Danbury, Joel Urice	36
Kent, Bruce Adams	1
New Fairfield, Susan Chapman	6
New Milford, Suzanne Von Holt	12
Newtown, Herbert Rosenthal	12
Redding, Jeff Hansen	4
Sherman, Don Lowe	2
	<hr/>
	88

Others Present:

Dan Rosenthal, First Selectman Newtown
Bill Aduleit, Oak Ridge
Jodie Barnell-Dresher, Oak Ridge
Glenn Nanavaty, Nanavaty, Nanavaty & Davenport
Katrina Koerting, Danbury News Times

Members Absent:

Bridgewater
Ridgefield

Call to Order:

The meeting was called to order by Vice Chairman M. Knickerbocker at 10:00 a.m. with a quorum of 86 votes present from eight towns. M. Knickerbocker led everyone in the pledge of allegiance. D. Lowe arrived at 10:59am during the discussion of the glass pilot program and before a vote was taken bringing the quorum present to 88 votes with nine towns.

Public Comment:

There were no public comments.

Chairman and Members' Comments:

Vice Chairman M. Knickerbocker acknowledged leading the meeting in Chairman's absence. No other members made any comments.

Director's Report:

J. Heaton-Jones highlighted the following items from her written report:

- MSW tonnage year to date is running at **116%** compared to same time last year.
- Recycling tonnage is running at **121%** compared to the same time last year. The Director noted that All American waste has stopped bringing mixed recycling to the Danbury transfer station. The average monthly loss is 350-400 tons with an approximate \$3000 a month loss to the Authority's public education revenue.
- E-waste tonnage is at **100%** compared to the same time last year.

- There were 13 public education programs conducted since the last HRRRA meeting which included 3 schools, 28 classrooms and 589 students. HRRRA staff, T. Carlson, also met with school officials and their administration to implement cafeteria and classroom recycling at Shelter Rock Elementary and Pembroke Elementary in Danbury and Center School in Brookfield.
- At Danbury HHW event, a survey was conducted soliciting feedback on residential participation for the glass pilot. Data captured was included in the meeting packet.
- J. Heaton-Jones traveled to Morris County, New Jersey, to visit there permanent HHW site. The operation is serviced by MXI Environmental Services who also is the HRRRA vendor and located 109 miles from Brookfield. The facility has offered to accept hazardous material from resident and commercial generators from HRRRA communities. The charge would be \$1.25 per pound and require the generator to list all the material and quantities they are planning to dispose of before they arrive. Material would be weighed and checked against previously submitted list from generated. Payment would be made by check or credit card.
- The 2019 Recycling Billboard contest is launching. The Director emphasized the importance of having the support from each Chief Elected Official. Now more than ever it is essential we reach the students within our communities to educate the importance of recycling right. Public Education must become a priority for the HRRRA and its members. If residents are not informed and educated on waste reduction and recycling they can not do the right thing and improve their disposal habits.
- J. Heaton-Jones identified towns that have not yet returned the Form of Municipal Agreement (Bridgewater, Bethel, Danbury and Redding). The document must be returned to HRRRA as soon as possible to be included in the regional contract as Appendix D.
- J. Heaton-Jones reminded the full Authority of the 2019 Meetings dates emphasizing the change in date and date: 4th Monday of the months for February, April, June and September.

At this point, Vice Chairman, M. Knickerbocker asked for a motion to move New Business item 7b next on the agenda. **Motion** by J. Urice, second by S. Von Holt, to move item 7b Review and possible vote on 2017-18 FY HRRRA audit as next item on agenda. **Vote:** All in favor. (86 yes votes.)

G. Nananaty reviewed 2017-18 HRRRA audit and financial highlights declaring the audit a clean opinion. **Motion** by J. Urice, second by H. Rosenthal to accept the 2017-18 FY HRRRA audit. **Vote:** All in favor. (86 yes votes.)

Administrative Approvals:

a) Meeting notes, September 24, 2018

There was a collective agreement the document from the September 24, 2018 meeting which did not have a quorum and therefore no official business was conducted, would not be considered minutes. The document will be referred to as "notes". J. Heaton-Jones stated to maintain full transparency of Authority actions, the notes will remain posted on the website. M. Knickerbocker requested the document should be identify as "notes" and not minutes due to lack of quorum.

b) Financial Statements:

The Director reviewed the financials. **Motion** by J. Urice, second by H. Rosenthal to accept the Financial Statements through November 30, 2018 as presented. **Vote:** All in favor. (86 yes votes.)

Old Business:

- a) **Recycling Markets Update:** The Director reviewed the market reports attached to the agenda packet.

- b) **Request from Oak Ridge Waste & Recycling to Increase Recycling Tip Fee:** After detail discussion on current market conditions and the quality of the material coming into the transfer station. Members asked the representative from Oak Ridge (B. Aduleit) to explain the increase from \$55 a ton to \$65 a ton. **Motion** by J. Urice, second by H. Rosenthal to grant Oak Ridge Waste & Recycling an increase from \$55 a ton to \$65 for mixed recycling. **Vote:** All in favor. (86 yes votes.)
- c) **Glass Pilot Program Update:** The HRRRA Director reviewed the details of the glass pilot program and the importance of finding local solutions to a national and global issue on contamination and its impact to the quality of the mixed recycling stream. The Director encouraged the Authority to support the pilot program to remove glass from the mixed stream. The CT DEEP will still need to approve the pilot before residents are told to no longer put it in their curbside bin. They may volunteer to bring the glass to their local transfer station to source separate the material until it is approved by CT DEEP. To date the towns of Bethel, Danbury, Kent, Redding, Ridgefield and Newtown have already requested containers. The towns that do not have transfer stations may also request a container for a municipal location once the pilot is approved by CT DEEP. Oak Ridge has sent a draft agreement to the Executive Committee to review. The proposal includes a \$35/ton tip fee (for clean glass) for private haulers who wish to offer the service to their customers. **Motion** by J. Urice, second by S. Conn to endorse the participation of all HRRRA members in a Glass Pilot Program upon review and approval of a formal agreement with Oak Ridge by the Executive Committee **Vote:** All in favor. (88 yes votes.)

New Business:

- a) **Hauler Registration Policy:** J. Heaton-Jones informed the Authority of the difficulties getting hauler compliance with municipal registration once they are already past the July 31, 4pm deadline. Presenting updates to the current policy review by legal counsel, J. Heaton-Jones requested a 1.5% compounding monthly charge be added to existing late fees due until the hauler is paid in full. The policy formalizes the 30-day window for new haulers to register if identified doing business at any time during the fiscal year. Additionally, HRRRA will collect any processing fees or returned check fees incurred in processing a registration. **Motion** by H. Rosenthal, second by S. Chapman to accept the revised hauler registration policy as presented. **Vote:** All in favor. (88 yes votes.)
- b) **Moved to earlier in the agenda.**
- c) **HRRRA 2018 Legislative Agenda:** The Director reviewed four legislative items that will likely be presented during the 2019 legislative session. **Motion** by S. Chapman, second by S. Von Holt to endorse the slate of items that include, modernization of the bottle deposit law, EPR for packaging, and a state ban on single use bags. In addition to staying informed on possible legislation on the issue of microfibers. **Vote:** All in favor. (88 yes votes.)

Adjournment:

On a motion by S. Chapman, second H. Rosenthal, the meeting was adjourned at 11:17 a.m. **Vote:** All in favor of adjournment. (88 yes votes.)

Respectfully submitted,

Tiffany Carlson
Administrative Assistant

Ordinary Income/Expense	Jul '18 - Jan 19	Budget	\$ Over Budget	% of Budget
Income				
GRANTS/DONATIONS	900.00			
OTHER GRANTS/DONATIONS				
GRANTS/DONATIONS - Other	9,877.50	22,000.00	-12,122.50	44.9%
Total GRANTS/DONATIONS	10,777.50	22,000.00	-11,222.50	48.99%
HAULER PERMITS				
CURRENT HAULER PERMITS	47,450.00	46,250.00	1,200.00	102.6%
HAULER PERMIT LATE FEES	5,483.23	0.00	5,483.23	100.0%
MUNICIPAL HAULER REGISTRATIONS	35,000.00	40,000.00	-5,000.00	87.5%
PRE-PAID HAULER PERMITS	0.00	0.00	0.00	0.0%
PREPAID MUNICIPAL REGISTRATIONS	0.00	0.00	0.00	0.0%
Total HAULER PERMITS	87,933.23	86,250.00	1,683.23	101.95%
HHWDD REIMBURSEMENT				
HHW PARTICIPATING TOWNS	67,296.95	90,000.00	-22,703.05	74.77%
Total HHWDD REIMBURSEMENT	67,296.95	90,000.00	-22,703.05	74.77%
INTEREST INCOME	8,909.57	7,000.00	1,909.57	127.28%
MISC INCOME	541.36	0.00	541.36	100.0%
PROGRAM SERVICES FEES				
MSW PROGRAM FEES	44,557.75	67,500.00	-22,942.25	66.01%
RECYCLING PROGRAM FEES	41,109.39	50,312.50	-9,203.11	81.71%
PROGRAM SERVICES FEES - Other	22,500.00			
Total PROGRAM SERVICES FEES	108,167.14	117,812.50	-9,645.36	91.81%
Total Income	283,625.75	323,062.50	-39,436.75	87.79%
Gross Profit	283,625.75	323,062.50	-39,436.75	87.79%
Expense				
AUDIT	6,400.00	0.00	6,400.00	100.0%
CONTINGENCY	0.00	15,000.00	-15,000.00	0.0%
EDUCATION				
DEEP GRANT PROGRAMS	0.00	0.00	0.00	0.0%
PUBLIC EDUCATION	11,381.62	14,000.00	-2,618.38	81.3%
RECYCLING EDUCATOR	0.00	0.00	0.00	0.0%
STAFF EDUCATION	1,845.67	2,550.00	-704.33	72.38%
Total EDUCATION	13,227.29	16,550.00	-3,322.71	79.92%

ATTACHMENT C

	Jul '18 - Jan 19	Budget	\$ Over Budget	% of Budget
HHW EXPENSE				
HHW TOWN SHARE	85,927.10	90,000.00	-4,072.90	95.48%
HHW HRRRA SHARE	1,452.79	3,500.00	-2,047.21	41.51%
HHWDD DANBURY AREA TOWNS	0.00	0.00	0.00	0.0%
Total HHW EXPENSE	87,379.89	93,500.00	-6,120.11	93.45%
INSURANCE				
ERRORS & OMISSIONS	0.00	0.00	0.00	0.0%
GENERAL LIABILITY	0.00	0.00	0.00	0.0%
SURETY BOND	391.00	425.00	-34.00	92.0%
WORKERS COMP	0.00	550.00	-550.00	0.0%
Total INSURANCE	391.00	975.00	-584.00	40.1%
MISCELLANEOUS				
MISC EXPENSE	1,124.37	1,250.00	-125.63	89.95%
PAYROLL PROCESSING SERVICE	690.19	709.08	-18.89	97.34%
SERVICE FEES/MEMBERSHIPS	2,125.00	2,450.00	-325.00	86.74%
Total MISCELLANEOUS	3,939.56	4,409.08	-469.52	89.35%
OFFICE EXPENSES				
COPY EXPENSE	1,552.48	1,950.00	-397.52	79.61%
PHONE/FAX/INTERNET/COPY	0.00	0.00	0.00	0.0%
RENT	9,450.00	9,450.00	0.00	100.0%
SUPPLIES	3,024.61	3,100.00	-75.39	97.57%
Total OFFICE EXPENSES	14,027.09	14,500.00	-472.91	96.74%
PROFESSIONAL SERVICES				
AUDIT SERVICES	0.00	6,500.00	-6,500.00	0.0%
CONSULTING SERVICES	0.00	0.00	0.00	0.0%
LEGAL SERVICES	1,983.50	10,000.00	-8,016.50	19.84%
Total PROFESSIONAL SERVICES	1,983.50	16,500.00	-14,516.50	12.02%
REIMBURSEMENT FOR COLLECTED FEE				
MUNICIPAL HAULER REG REIMBURSEM	34,950.00	0.00	34,950.00	100.0%
REIMBURSEMENT FOR COLLECTED FEE - Other	0.00	40,000.00	-40,000.00	0.0%
Total REIMBURSEMENT FOR COLLECTED FEE	34,950.00	40,000.00	-5,050.00	87.38%
STAFFING				
DISABILITY INSURANCE	0.00	3,500.00	-3,500.00	0.0%
HEALTH INSURANCE	3,980.03	4,081.65	-101.62	97.51%

	Jul '18 - Jan 19	Budget	\$ Over Budget	% of Budget
HSA CONTRIBUTION	580.91	575.00	5.91	101.03%
IN LIEU OF MEDICAL INSURANCE	0.00	0.00	0.00	0.0%
PAYROLL TAXES				
CT PR TAXES	292.47	364.56	-72.09	80.23%
FED PR TAX	5,799.17	5,744.06	55.11	100.96%
Total PAYROLL TAXES	6,091.64	6,108.62	-16.98	99.72%
PENSION	5,631.22	5,631.50	-0.28	100.0%
SALARIES				
DIRECTOR SALARY	59,536.82	59,536.75	0.07	100.0%
OTHER SALARIES	15,545.88	15,545.81	0.07	100.0%
SALARIES - Other	13.14	0.00	13.14	100.0%
Total SALARIES	75,095.84	75,082.56	13.28	100.02%
Total STAFFING	91,379.64	94,979.33	-3,599.69	96.21%
TRAVEL/MILEAGE REIMBURSEMENT	1,279.38	1,300.00	-20.62	98.41%
66900 - Reconciliation Discrepancies (Discrepancies between bank statements and c:	0.00	0.00	0.00	0.0%
Total Expense	254,957.35	297,713.41	-42,756.06	85.64%
Net Ordinary Income	28,668.40	25,349.09	3,319.31	113.09%
Other Income/Expense				
Other Income				
INVESTMENT GAIN	9,453.44	0.00	9,453.44	100.0%
USE OF FUND BALANCE	0.00	0.00	0.00	0.0%
Total Other Income	9,453.44	0.00	9,453.44	100.0%
Other Expense				
CAPITAL EQUIPMENT	0.00	0.00	0.00	0.0%
INVESTMENT LOSS	6,523.72	0.00	6,523.72	100.0%
MOVING EXPENSES	0.00	0.00	0.00	0.0%
REIMBURSE PREPAID RECY REBATES	0.00	0.00	0.00	0.0%
Total Other Expense	6,523.72	0.00	6,523.72	100.0%
Net Other Income	2,929.72	0.00	2,929.72	100.0%
Net Income	31,598.12	25,349.09	6,249.03	124.65%

C2

	<u>Jan 31, 19</u>
ASSETS	
Current Assets	
Checking/Savings	
PayPal (Online Credit Card Payment)	49.98
UNION SAVINGS BANK	184,000.60
STIF	15,870.02
VANGUARD	
VANGUARD SHRT TRM INV GR VFSUX	348,741.74
VANGUARD TOTAL BOND MARKET VBTL	168,604.45
Total VANGUARD	<u>517,346.19</u>
Total Checking/Savings	717,266.79
Accounts Receivable	
*ACCOUNTS RECEIVABLE	42,754.36
Total Accounts Receivable	<u>42,754.36</u>
Total Current Assets	<u>760,021.15</u>
TOTAL ASSETS	<u><u>760,021.15</u></u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
PAYROLL LIABILITIES	
SEP Admin (This account is for the Directors Assistant Pension Account)	166.56
CT PR TAXES PAYABLE	
CIT	-14.90
CT SUI	96.05
Total CT PR TAXES PAYABLE	<u>81.15</u>
FED PR TAXES PAYABLE	
FICA	96.76
FIT	80.00
FUTA	55.33
MEDICARE TAX	22.62
Total FED PR TAXES PAYABLE	<u>254.71</u>
SEP LIABILITY	637.90
PAYROLL LIABILITIES - Other	2,812.40
Total PAYROLL LIABILITIES	<u>3,952.72</u>
Total Other Current Liabilities	<u>3,952.72</u>
Total Current Liabilities	<u>3,952.72</u>
Total Liabilities	3,952.72
Equity	
RETAINED EARNINGS	724,470.31
Net Income	31,598.12
Total Equity	<u>756,068.43</u>
TOTAL LIABILITIES & EQUITY	<u><u>760,021.15</u></u>

UNION SAVINGS BANK

Type	Date	Num	Name	Memo	Amount
Check	01/01/2019	EFT	ANTHEM BLUE CROSS & BLUE SHIELD	January payment	-548.45
Bill Pmt -Check	01/01/2019	3729	GREATER DANBURY CHAMBER OF COMMERCE	Annual membership fee - 2019	-300.00
Liability Check	01/02/2019	3724	FIDELITY BROKERAGE SERVICES LLC	IRA Pension Contribution 4th Qtr	-1,913.70
Liability Check	01/02/2019	3725	CHARLES SCHWAB	IRA Pension Contribution 4th Qtr	-499.68
Bill Pmt -Check	01/02/2019	3726	JEN HEATON-JONES	December Travel/Mileage	-99.74
Bill Pmt -Check	01/02/2019	3727	JEN HEATON-JONES	January HSA	-580.91
Bill Pmt -Check	01/02/2019	3728	TOWN OF BROOKFIELD -V	January Rent	-1,350.00
Liability Check	01/02/2019	E-pay	COMMISSIONER OF REVENUE SERVICES	6982185-000 QB Tracking # -798566478	-596.20
Liability Check	01/02/2019	E-pay	U.S. TREASURY	06-1199137 QB Tracking # -798468478	-2,465.12
Check	01/04/2019	EFT	CONSTANT CONTACT	Monthly Fee - JAN	-45.45
Check	01/06/2019	EFT	ADOBE STORE	Monthly subscription - Stock images for public ec	-30.29
Bill Pmt -Check	01/08/2019	3732	COHN BIRNBAUM & SHEA	Legal Counsel	-1,168.00
Check	01/09/2019	EFT	ENDICIA	Postage	-75.00
Bill Pmt -Check	01/09/2019	3733	WB Mason	Tax forms and office supplies	-108.48
Check	01/11/2019	EFT	FOR PETE'S SAKE DELI	Lunch meeting - review glass pilot program & reg	-46.93
Bill Pmt -Check	01/11/2019	3734	CONNECTICUT RECYCLERS COALITION	Annual membership fee - 2019	-125.00
Liability Check	01/14/2019		QUICKBOOKS PAYROLL SERVICE	Created by Payroll Service on 01/02/2019	-4,252.25
Check	01/14/2019	EFT	INTUIT MARKETPLACE	Annual payroll subscription	-611.35
Check	01/15/2019	EFT - 6673	LEAF	Copier lease payment - 9076673	-140.88
Check	01/16/2019	EFT	PC Richard & Sons	HDMI cable for conference room TV presentator	-42.53
Check	01/22/2019	EFT	West Street Lot	Parking for SWAC meeting	-12.75
Check	01/26/2019	EFT	STAPLES	Billboard Contest and glass pilot program	-95.92
Liability Check	01/29/2019		QUICKBOOKS PAYROLL SERVICE	Created by Payroll Service on 01/02/2019	-4,252.24
Bill Pmt -Check	01/30/2019	3735	JEN HEATON-JONES	January Mileage Reimbursement	-249.40
Bill Pmt -Check	01/30/2019	3736	TIFFANY CARLSON	January Mileage Reimbursement	-77.14
Check	01/31/2019	EFT	SHOP RITE	Executive Committee Mtg. 2/1/19	-4.19
Total UNION SAVINGS BANK					-19,691.60
TOTAL					-19,691.60

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NEWSWORTHY



METALS

Lower nonferrous scrap prices compress margins for Schnitzer's recycling business unit

First quarter fiscal 2019 earnings for Schnitzer Steel Industries Inc., headquartered in Portland, Oregon, show the effects of operating margin compression on the company's Auto and Metals Recycling (AMR) business unit.

AMR's operating income was \$23 million, or \$25 per ferrous ton, compared with operating income in the first quarter of fiscal 2018 of \$35 million, or \$44 per ferrous ton. According to Schnitzer, AMR's year-over-year performance included benefits from 15 percent higher ferrous sales volumes and 18 percent higher nonferrous sales volumes. However, these increases were more than offset by operating margin compression resulting primarily from a 19 percent decline in average net selling prices for nonferrous products that outpaced the reduction in purchase costs for raw materials, the company says.

"In challenging market conditions that saw a significant decline in the net selling prices for our nonferrous products, AMR delivered solid operating performance with significant year-over-year improvement in ferrous and nonferrous volumes, demonstrating the benefits of our sales diversification strategy and our commercial initiatives to increase supply volumes," Tamara Lundgren, Schnitzer Steel president and CEO, says in the news release announcing the quarterly earnings.

In the Jan. 9 conference call to discuss the earnings, she said "diverging export and domestic ferrous prices that occurred toward the end of the quarter" also affected

AMR's performance. Lundgren added that this divergence in pricing "created pressure on purchase prices," compressing margins.

"The ferrous and nonferrous export markets have been adversely impacted over the past six months by uncertainty surrounding tariff and nontariff barriers, regulatory changes in China and expectations of slower economic growth, all of which led to lower prices," she continued.

Schnitzer has sought new export destinations for nonferrous scrap that has been displaced by China's import regulations. In the first quarter of fiscal 2019, the company shipped 73 percent of its nonferrous volumes to destinations other than China, Lundgren added.

However, she said the situation regarding nonferrous scrap shipments to China could be eased by a recent announcement. "In late December, the Chinese government announced that beginning July 1, 2019, new regulations will recharacterize certain scrap from solid waste/scrap to raw or furnace ready materials. This change could allow China to deliver on its proposed 2020 solid waste import ban while still allowing Chinese industries to import needed clean grades of scrap." Lundgren added, "This could be positive for recyclers like ourselves who produce high-quality products."

According to the conference call, approximately one-third of the company's nonferrous sales volumes are related to zorba.

"We expect to roll out advances to our nonferrous processing systems that will enable us to increase our throughput, lower our processing costs, increase our processing rates and created products with the metallic content sought by our customers around the world," Lundgren said.

For the first quarter of fiscal 2019, which ended Nov. 30, 2018, Schnitzer reported earnings per share (EPS) from continuing operations of 57 cents and adjusted EPS of 58 cents. In the conference call, Lundgren said the company's adjusted EPS for the quarter were the second highest first quarter performance for the company since 2011. Its EPS from continuing operations were 64 cents, while adjusted EPS were 63 cents.

The company's consolidated financial performance for the quarter included corporate expense of \$12 million, a decrease of \$4 million from the prior year's first quarter, which had included a charge for a legacy environmental liability of \$4 million.

PLASTICS

DAK Americas to acquire Perpetual Recycling Solutions

DAK Americas LLC, Charlotte, North Carolina, has signed an asset purchase agreement with Perpetual Recycling Solutions LLC to acquire Perpetual's polyethylene terephthalate (PET) recycling facility in Richmond, Indiana. The operation has an annual capacity of 100 million pounds per year (or about 45,000 tons per year) of recycled-content PET (rPET) flake.

DAK Americas serves as a subsidiary of Alpek S.A. de C.V., a business group of Alfa S.A.B. de C.V., which describes itself as one of Mexico's largest global industrial companies.

According to a DAK Americas news release, the Perpetual facility will complement Alpek Polyester's current food-grade PET recycling capacity in Pacheco, Argentina, as well as its fiber-grade recycling joint venture plant in Fayetteville, North Carolina.

"The acquisition of Perpetual and additional rPET capacity demonstrates Alpek Polyester's ongoing commitment to sustainable product offerings to meet growing customer and consumer demand for rPET content," says Jon McNaull, vice president of PET resins at DAK Americas. "The addition of this facility will allow us to expand our sustainability initiatives."

The terms of the agreement have not been disclosed, and the acquisition is expected to be completed in the first quarter of 2019.



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METALS
Century Aluminum to expand capacity in Kentucky

Century Aluminum Sebree LLC, a wholly owned subsidiary of Century Aluminum Co., based in Chicago, has announced two expansion programs at its Sebree, Kentucky, smelter to increase production of value-added and secondary aluminum.

The programs, which the company says it expects to be completed in the first quarter of 2019, have been designed to improve the smelter's product mix by adding approximately 90,000 metric tons of additional billet production to the Sebree casthouse. The company also will increase the smelter's overall output by adding 20,000 metric tons of additional secondary (scrap reprocessing) capacity. Following the expansions, Sebree

is expected to produce approximately 230,000 metric tons of aluminum (primary and secondary) products in 2019, including approximately 175,000 metric tons of billet, the company says.

"These new expansion programs demonstrate our confidence in the future of the United States aluminum industry and the continued positive effects of the Trump administration's Section 232 program," says Michael A. Bless, president and chief executive officer of Century Aluminum.

"With the 150,000 [metric ton] restart of Century's Hawesville (Kentucky) smelter nearing completion, we are now able to continue to reinvest in our plants to increase value-added production and enter the expanding secondary market. These programs, along with the previously announced technology improvement program at Hawesville, should ensure the continued competitiveness of these plants well into the future.

"This expansion is also a testament to the hard work of our excellent employees, and we are proud to announce that, as a result of the programs, Sebree plans to add nearly 50 new employees," Bless adds.

According to Century's website, Sebree's location is situated in the middle of the Midwestern market, with a majority of the smelter's customers within 600 miles of the plant.



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METALS

Nucor eyes Midwest for new plate mill

Charlotte, North Carolina-based Nucor Corp. has announced plans to build what it calls a state-of-the-art plate mill in the U.S. Midwest. Nucor's board of directors has approved an investment of \$1.35 billion to build the mill, which the company says it expects to be fully operational in 2022 and capable of producing 1.2 million tons per year of steel plate products. Nucor's existing mills are scrap-fed electric arc furnace (EAF) steel mills.

"This investment is consistent with our drive to continue delivering sustainable, profitable growth and superior returns for shareholders," says John Ferriola, chair, CEO and president of Nucor. "Together with the significant share repurchases completed in 2018, the board's decision to fund this high-return opportunity demonstrates our commitment to balanced capital allocation."

Leon Topalian, who is the executive vice president of beam and plate products for Nucor, says, "By building this state-of-the-art plate mill in the Midwest—the largest plate-consuming area in the United States—we will enhance our ability to serve our customers in the region while also furthering our goal of meeting all the steel needs of our customers around the country."

The new plate mill will produce cut-to-length, coiled, heat-treated and discrete plate ranging from 60 to 160 inches wide and in gauges from 3/16ths of an inch to 14 inches. Producing those dimensions will enable Nucor to supply plate products it does not currently offer.

Ferriola credits Trump administration tariffs as a factor in its investment. "This administration is taking the decisive and meaningful actions that American manufacturers need to compete on a level playing field," he says. "Tax reform, continued improvements to our regulatory approach and strong trade enforcement are giving businesses like ours the confidence to make long-term capital investments here in the United States that create jobs and ensure our success for decades to come."



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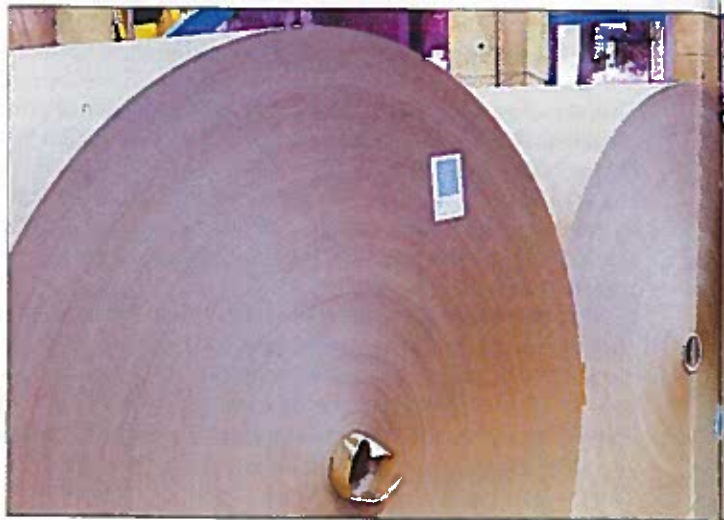
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NEWSWORTHY



PAPER, MERGERS & ACQUISITIONS

Greif to purchase Carastar Industries

Greif Inc., a Delaware, Ohio-based producer of industrial packaging products and services, has entered into a definitive agreement to acquire Carastar Industries Inc., a recycled paperboard and packaging company based in Austell, Georgia, from an affiliate of H.I.G. Capital. The cash transaction is valued at \$1.8 billion and is expected to close during the first quarter of 2019, subject to customary closing conditions, including regulatory clearances, according to a news release issued by Greif.

Carastar produces uncoated recycled paperboard (URB) and coated recycled paperboard (CRB) with a variety of applications that include tubes and cores and a mix of specialty products. The company's footprint includes more than 80 operating facilities throughout the United States. Its business lines include Recycling Services, Mill Group (URB, CRB and specialty paperboard products), Industrial Products Group (tubes and cores, construction products, protective packaging, adhesives) and Consumer Packaging (folding cartons, setup boxes, packaging services).

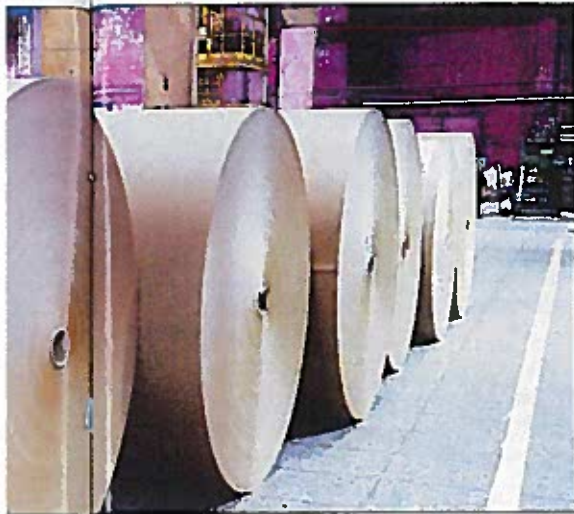
"Carastar offers an exceptional strategic and cultural fit for Greif," says Greif President and CEO Pete Watson. "Its complementary paper packaging and recycled fiber operations will drive significant free cash flow growth, improve balance and profitability within the Greif portfolio and increase Greif's exposure to U.S. industrial and consumer end markets. Most importantly, Greif and Carastar share the same dedication to providing industry-leading service to all customers. I am excited to welcome our new colleagues to the Greif family and look forward to working closely with them."

"We are excited about [the Dec. 20] announcement and what it means for Carastar's customers and employees," says Carastar President and CEO Mike Patton. "Greif is a well-known market leader with a strong manufacturing base. Our customers will benefit from Greif's customer service focus and broad product offering, and our employees will join a culture with a strong legacy for service and quality."

For the 12-month period ended Sept. 30, 2018, Carastar generated \$1.4 billion in sales and earnings before interest, taxes, de-

Photo courtesy of Carastar Industries

D4



preciation and amortization (EBITDA) of \$174 million. Based on trailing 12-month actual volume, adjusted for current market conditions as of that date, the company's run-rate EBITDA is \$220 million, Greif says in its news release.

The transaction significantly enhances Greif's scale and scope in the industrial packaging market, creating significant competitive advantages and long-term operating leverage. The company says the transaction is immediately accretive to earnings and its financial profile. Greif also says it expects strategic flexibility for capital deployment going forward.

The addition of Caraustar is expected to increase Greif's U.S. sales to roughly two-thirds of total consolidated sales from approximately half for fiscal 2018, according to the company. In addition, the percentage of Greif's sales from paper packaging will expand to approximately half of total consolidated revenue compared with 23 percent for fiscal 2018.

Greif says it also expects the transaction to generate annual run-rate cost synergies of at least \$45 million within 36 months of closing through a combination of back office savings, transportation optimization, recycled fiber savings, operational improvements and other procurement-related activities.

Greif describes Caraustar as a market leader in URB and CRB with an attractive mix of industrial and consumer customers. Additionally, Caraustar sells a variety of specialty paper products that Greif says will complement its portfolio.

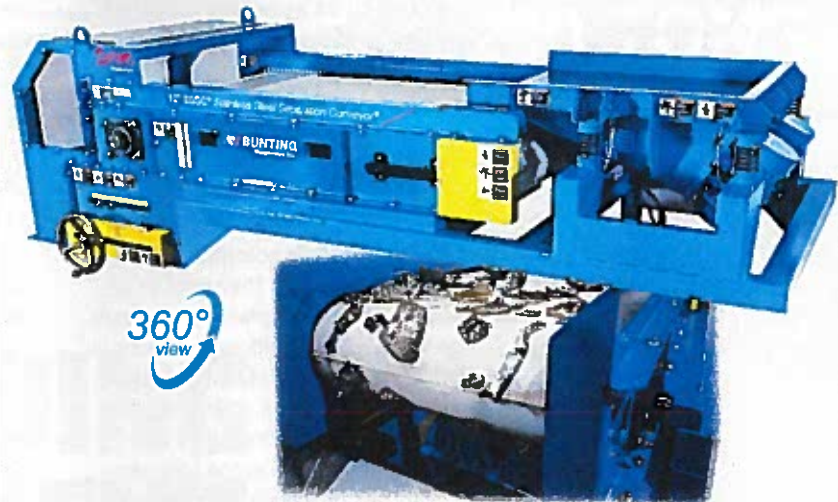
The company also says that Caraustar's business offers close operational adjacency to Greif's current mill operations and that its operational philosophy aligns with Greif's as well.

Wells Fargo Bank, National Association,

Goldman Sachs Bank USA and JP Morgan Chase Bank N.A. each have provided financing commitments for the transaction.

Goldman Sachs & Co. LLC acted as the exclusive financial advisor to Greif for the transaction.

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"We might see busheling drop by 20 percent in volume in December rather than, say, 50 percent or 70 percent in some of the former business models."

— a Great Lakes region recycler

ANTICIPATION SETS IN

Economists and recyclers alike are trying to figure out whether a new calendar on the wall will bring with it changes to the global and national economies. Declines in January scrap prices sent a negative initial signal, but recyclers are not convinced it is a harbinger of things to come.

Although surveyed ferrous scrap pricing for the January buying period conducted by *Fastmarkets AMM* fell by \$29 to \$40 per ton (depending on the grade and region), scrap recyclers contacted in early January point to unseasonable weather as a noneconomic factor in the decrease.

"We kind of count on snow as a factor to keep supply short and prices higher in months like January and February," says a Great Lakes region recycler. As of early January, he says many metro regions had not yet experienced their first major snowfall.

The same recycler, whose company does considerable business with the automotive sector, also says that industry's notorious seasonal cycles are less of a factor than they used to be.

Auto assembly and engine plants increasingly avoid complete December shutdowns, shifting instead to a "rolling" schedule that may shut down one line within a facility but not an entire plant.

With this new technique adopted by auto companies and their first- and second-tier suppliers, "We might see busheling drop by 20 percent in volume in December rather than, say, 50 percent or 70 percent in some of the former business models," he says.

While the American financial press seems to be on alert for a recession, the Great Lakes

recycler and another recycler in the Great Plains region say they and their customers do not see blatant warning signs.

"Even during the Christmas season, there were no big slowdowns," says the Great Lakes recycler. He says a regional customer running a stamping plant has engaged in a recent building expansion but still runs the risk of having to turn away work because of an overflowing order book.

The Great Plains recycler says mid-to-late December did produce a lull—"the phone just stopped ringing," he remarks—but business resumed in January, and both his suppliers and his consuming customers foresee an active first quarter of 2019.

The same recycler does express concern, however, about a "self-fulfilling" prophecy if the financial media continues to anticipate a recession. He says some smaller scrap dealers are already holding onto material and seem "afraid of market changes."

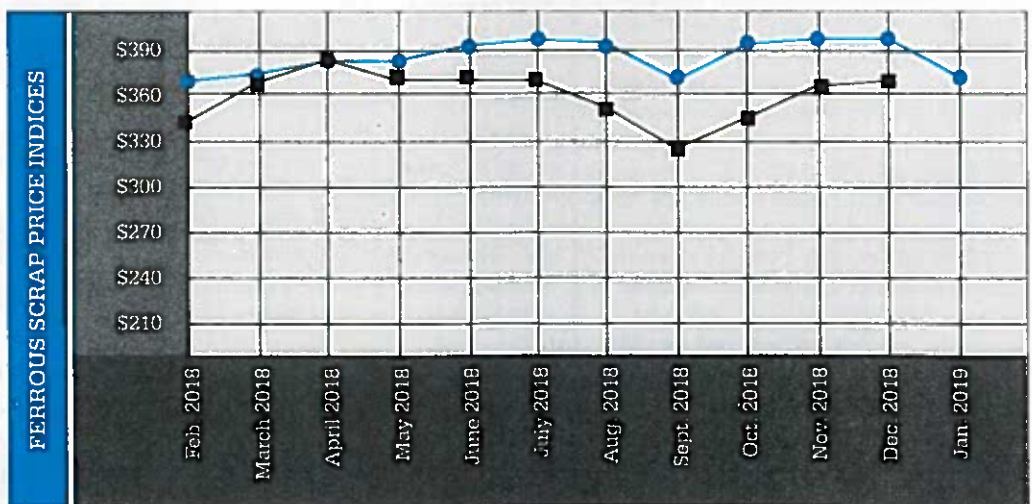
The Great Plains recycler adds, "The good news is our larger suppliers and buyers have ramped back up in January, and small businesses overall in the United States continue to be doing pretty well."

The same recycler also notes that vehicle sales and home sales are stalling nationally, which likely fuels some of the recession concern. A scrap buyer in the Southeast says the construction sector in his region remains strong, but the demolition sector there (a leading indicator for construction) has grown quieter. "It's cyclical," he says.

A survey of U.S. and global economic forecasts conducted by Milan-based Gianclaudio

Additional Raw Material Data Aggregation Service (RMDAS) pricing from Pittsburgh-based Management Science Associates (MSA) is available on the *Recycling Today* website at www.RecyclingToday.com/RMDAS.

→



● *Fastmarkets AMM Midwest Scrap Index, No. 1 busheling*: All prices are effective the 10th of the month or the following Monday if the 10th falls on the weekend.
 ■ *RMDAS Ferrous Scrap Price Index*: Per gross ton for No. 2 shredded scrap, defined as 0.17 percent or greater copper content, effective the 20th of each respective buy month.



**JANUARY 2019
FASTMARKETS AMM
MIDWEST
SCRAP INDEX PRICING**

No. 1 HMS
\$293.74

No. 1 Busheling
\$372.11

Shredded
\$320.42

**JANUARY 2019
FASTMARKETS AMM
U.S. FERROUS SCRAP
EXPORT INDICES**

**HMS 1 & 2
East Coast***
\$260

**HMS 1 & 2
West Coast****
\$275.53

Torlizzi of T-Commodity points to some of the factors that have economists wondering if a slowdown is in the near future.

Torlizzi cites London-based Barclays as saying concerns over 2019's economic outlook helped cause a sell-off of metals and other asset classes. From early December 2018 to early January, copper prices slid 8 percent, and the Jan. 4 London Metal Exchange (LME) close of \$5,775 per metric ton was down 21 percent from a 2018 high of \$7,333 reached in June, he writes.

"Meanwhile, the Dow Jones Industrial index lost 12 percent between Dec. 3, 2018, and Thursday, Jan. 3, though Dow stocks rose more than 625 points in trading Friday, Jan. 4, 2019," according to Torlizzi's analysis.

He writes, "Equities and industrial commodities will stage a nice move higher if and once investors will believe recession in the United

States is not in the cards. Currently, equity markets appear to be pricing in around a 60 percent chance of a typical U.S. recession."

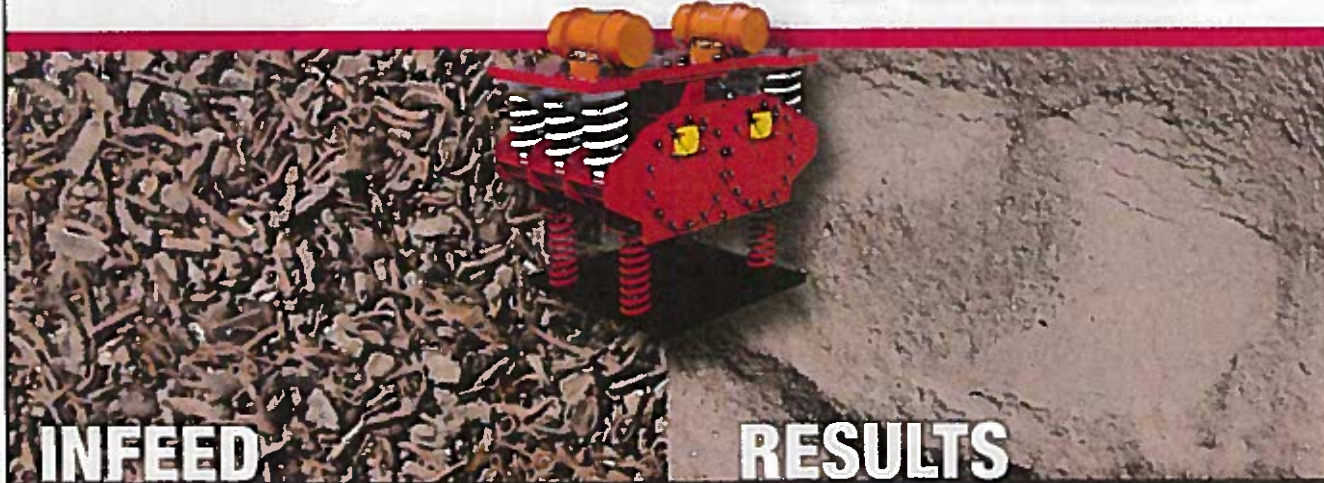
Torlizzi continues, "The performance of industrial metals over the previous months suggests that commodity markets have priced in around a 56 percent chance of a typical U.S. recession, in line with U.S. equity markets."

The analyst says that during the previous five recessions, "The excess return of the industrial metals Goldman Sachs Commodity Index (GSCI) from peak to trough was an average of negative 43 percent."

So far, he adds, "Industrial metals have fallen 24 percent since the recent peak on April 18, 2018, so based on the average 43 percent fall during past U.S. recessions, we can interpret recent performance in base metals as pricing in a 56 percent chance of a typical U.S. recession."

The Fastmarkets American Metal Market (AMM) Midwest Ferrous Scrap Index is calculated based on transaction data received that are then tonnage-weighted and normalized to produce a final index value. The Fastmarkets AMM Scrap Index includes material that will be delivered within 30 days to the mill. Spot business included after the 10th of the month will not be included. The detailed methodology is available at www.amm.com/pricing/methodology.html. The Fastmarkets AMM Ferrous Scrap Export Indices are calculated based on transaction data received that are then tonnage-weighted and normalized to produce a final index value. *FOB New York, in metric tons. **FOB Los Angeles, in metric tons. The above grades are based on the Institute of Scrap Recycling Inc. (ISRI) specifications.

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Colleagues in the Recycling Community:

You may have read that we recently pleaded guilty in federal court to a felony charge of conspiracy to commit wire fraud in connection with our company's handling of flat screen monitors between 2009 and 2015. The purpose of this Op-Ed, which we have paid to place in this and other publications, is to alert our colleagues in the recycling industry, as well as business owners in general, to the importance of insuring that all business activities comply with the law and commitments you have made to your customers.

Arriving at the point where we were prepared to enter our respective guilty pleas was difficult and painful. Neither of us ever imagined that we would find ourselves pleading guilty to felonies. Our decision has caused each of us to reflect upon the slippery slope of miscalculations and misrepresentations, which resulted in our violating the law. We also recognize that we failed those customers whose trust we violated. Our poor decision making and resulting criminality has forever changed our lives; indeed, we face the prospect of incarceration in federal prison when we are sentenced in March 2019. It is our hope that by publishing our story we can help others avoid repeating our mistakes and the consequences we now confront.

Thank you for taking the time to read, and hopefully learn from, our story.

BACKGROUND

Total Reclaim was founded in 1991 with the goal of helping industry and government agencies recycle refrigerators and HVAC equipment in compliance with the 1990 Amendments to the Clean Air Act. In 1995, Total Reclaim became the first reclaimer of refrigerants in the Pacific Northwest. In 1997, we created our sister company, EcoLights Northwest, to recycle mercury bearing lamps and in 1999, we began recycling computers, monitors, and other electronics. Ultimately, Total Reclaim grew to become the leading recycler of computers and electronics in the Pacific Northwest, processing material collected from commercial and governmental entities large and small, as well as individual consumers.

Throughout its history, Total Reclaim strived to serve as a role model for other recyclers by investing in the best currently available technologies, developing new techniques to recover valuable natural resources from discarded materials, and participating in policy development for emerging waste streams. We were successful in achieving our goals and recognized for our successes.

THE FLAT SCREEN DILEMMA AND THE SLIPPERY SLOPE

As flat screens became more common in homes and workplaces, Total Reclaim began receiving LCD monitors and televisions for recycling. These products presented particularly novel challenges to Total Reclaim and other recyclers due to the complexity of their construction and the labor needed to dismantle and recycle them.

Initially, the volume of LCD flat screens we received was small and manageable. Nonetheless, as the volume rapidly grew, we were presented with the opportunity to sell the flat screens to another company and we agreed to do so. We made this decision knowing that the company to which we sold the flat screens intended to export them to Hong Kong, primarily for re-sale and/or refurbishment but also, in some cases, for disassembly and end-of-life recycling. The decision to do so violated our contractual obligations with customers who paid us to recycle these items domestically, in compliance with our E-Steward certification, and the Basel Convention's provisions governing the export of electronic waste to developing countries, as well as Washington Department of Ecology regulations.

Our early decision to sell flat screens was driven primarily by simple business convenience, because it allowed us to postpone developing additional processing capacity. As the volume of flat screens increased over time, it became easier to stay the course and not address the inconsistency between our actions and contractual obligations to our customers.

To make matters worse, once flat screens entrusted to us for proper recycling were discovered in Hong Kong, we initially panicked, denied knowledge of the exports and modified shipping and other documents in an effort to conceal evidence of the shipments.

As we acknowledged in a May 2016 statement admit-



"We have been in a good position where we have been able to ship what we've bought."

— an aluminum scrap processor based in the Southeast

A FLOOD OF ALUMINUM SCRAP

Aluminum scrap continues to feel the effects of a supply overhang in the domestic market, with no immediate end visible, sources say.

"It's not the best I've ever seen it," says a scrap processor based in the Southeast. "There is a glut of metal in the market, so as good businessmen do, they are widening the spreads and making more money where they can," he says of aluminum scrap consumers. "If you are on one end, you're winning. We're not winning."

He adds that at some point something will happen to reverse the situation, at which point he'll be smiling. But, as of mid-January, the scrap processor says, "I'm not smiling much today."

Roughly 60 percent of the aluminum scrap the company handles is generated by industrial accounts, and there is no turning off the faucet. However, when it comes to obsolete material, he says his company has "reduced [our] off-street buying price." This has helped to lessen the scrap volume entering his yard.

"We have been in a good position where we have been able to ship what we've bought," the processor says. "We're not holding inventory."

A scrap processor in the Midwest is taking a different tactic when it comes to aluminum scrap. "We are holding high-priced material as the market drops," he says.

The market for copper scrap is much better comparatively. "I sell the copper before I get it," the Midwest-based processor says.

While the processor based in the Southeast

says his aluminum scrap is sold domestically, some of the company's copper scrap—mainly No. 2 copper—is shipped internationally, with Malaysia and Japan having been popular destinations in 2018. "I bet it's been six months since we direct shipped anything to China."

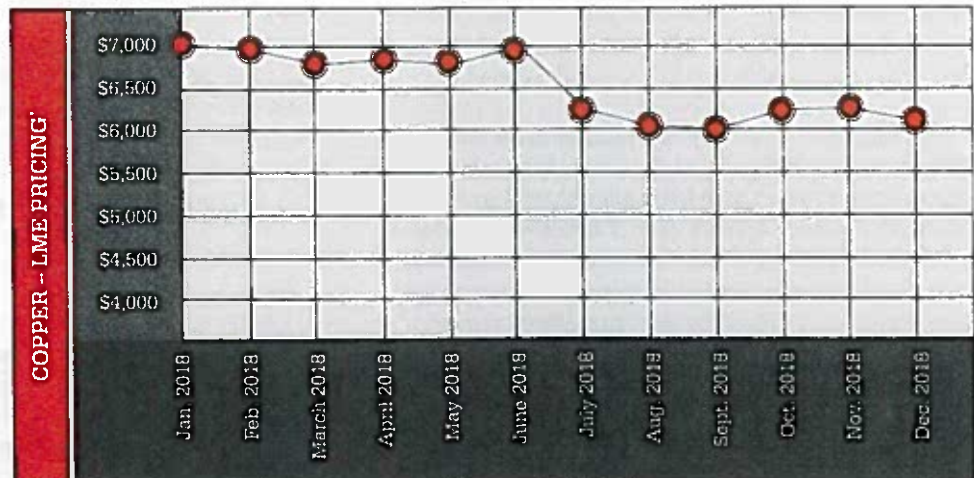
The processor in the Southeast says he tries to remain optimistic, but adds, "I don't see anything in the first quarter of 2019 that tells me we are going to have an improvement" in the aluminum scrap sector. He says he's hopeful the second quarter or second half of the year will bring relief. "I've always heard hope is not a business strategy, so I need to keep that out of it."

While the aluminum scrap market might still be searching for the bottom, tightness in the transportation sector has eased somewhat, he says. "We had less trouble in the last quarter than we did in the middle of the year," the processor says, adding that trucking started to become more available in his region in the third quarter of 2018.

He says his company is no longer double-booking trucks as it had been doing in the first half of 2018 because of concerns that the trucks would not show up as planned.

Despite the easing in truck availability, pricing remains high. "Our freight costs went up 32 percent last year," the processor based in the Southeast says.

The Midwest-based processor saw a similar increase in freight rates in 2018 but adds that his company had no problems getting material out of its yard and to its customers.



*Average monthly settlement price, cash buyer; U.S. dollars per metric ton. Source: London Metal Exchange, www.lme.com.



"With the prohibition of recycling and inspection requirements early in the year, it was just awful."

- a recycler based on the West Coast

A STEADY, STABLE START TO 2019

Recovered fiber pricing remained unchanged heading into 2019. According to data tracked by Boston-based Fastmarkets RISI Inc., the U.S. national average price for old corrugated containers (OCC) has been \$69 per ton for the past two months, and the price for mixed paper stayed at \$6 per ton in December and January.

In 2018, the mixed paper grade sank to \$0 per ton, with some mixed paper heading for disposal rather than for recycling. However, some paper and board makers in North America have responded to this circumstance, investing in capacity to consume this material. Also, demand for other grades of recovered paper, such as OCC, has increased.

During the 2018 RISI International Recycled Fiber and Containerboard Conference in December in Shenzhen, China, Bill Moore of Moore & Associates, Atlanta, stated that despite the turmoil in recovered fiber markets caused by China's scrap import restrictions, a consensus had formed among many recyclers that "China's new standard has been a good thing, despite the pain."

Moore said investments by Pratt Industries and Green Bay Packaging should help to absorb mixed paper in the United States. Also, China-based Shanying International purchased a pulp and paper mill in Kentucky in mid-2018, which it renamed Phoenix Paper Wickliffe LLC. This mill eventually will consume some recovered fiber.

Ken Huang, strategy general manager for Shanying International, stated at RISI's December conference that recovered paper is a "precious raw material for international trade" for his company.

With China's scrap import restrictions in place,

Huang said imported pulp serves as "the best solution" for Shanying.

According to WKMS-FM radio in Murray, Kentucky, the Phoenix Paper Wickliffe mill is expected to open sometime before April this year.

Although these domestic investments are good news for the recovered fiber market, they aren't likely to have an impact until the second half of 2019 and into the beginning of 2020.

"We'll start seeing effects [of these mills] as we get into the beginning of the third and fourth quarters of 2019," says a broker in the Midwest. He adds that recyclers shouldn't be "lulled into a sense of security" with the new domestic mill capacity, noting that capacity alone won't solve all the problems of the recovered fiber market.

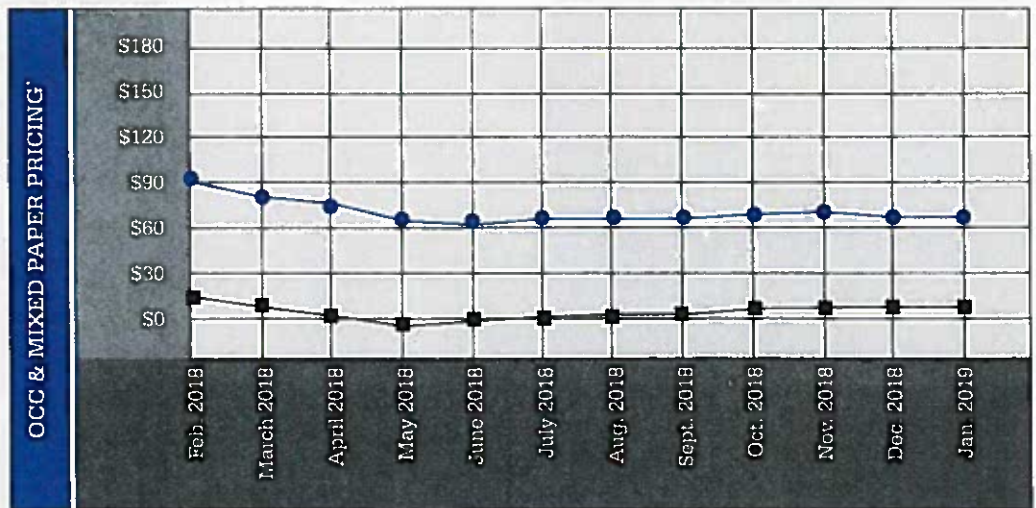
"Capacity is only as good as the sale of the end product," the Midwest broker says. "Paper mills can have all the capacity they want, but if there is no demand for boxes, that's a lot of unused capacity."

In recent months, recyclers also are having some success exporting recovered fiber. An East Coast-based broker says he has seen improved conditions for recovered fiber exports. In particular, OCC is in steady demand, despite new restrictions on shipments of the material.

"We are seeing paper exports stay steady, with increased volume going to Southeast Asia," the East Coast-based broker says.

Mike Zampa, communications director at the Port of Oakland in California, says the volume of recycled paper that was exported from the port in 2018 increased about 3 percent compared with 2017 exports.

For a free trial of Fastmarkets RISI's PPW Yellow Sheet pricing, please visit www.risi.com/rt.



● OCC ■ Mixed Paper (\$4); *Average U.S. dollars per short ton for open market purchases by mills for delivery in January as reported by Fastmarkets RISI's PPW Yellow Sheet Jan. 7. Prices used with permission from PPW Yellow Sheet. Free trial available: www.risi.com/rt.

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"Capacity is only as good as the sale of the end product."

— a Midwest broker

"That's solid improvement, given the challenges exporters faced with tougher quality standards in China," Zampa says. He adds that many of the port's shipments of recycled paper went to other Asian markets, most notably to Taiwan and Vietnam.

However, a recycler on the West Coast adds that movement out of the Port of Los Angeles hasn't

been as positive. "Looking holistically at exports from California, exports diminished slightly because the Port of Los Angeles is much larger," he says. "With the prohibition of recycling and inspection requirements early in the year, it was just awful."

He adds that conditions at the Port of Los Angeles are improving a bit as of early January, though. Looking ahead, Zampa adds that he's uncertain

as to how recycled paper exports will fair. But he says 2018 indicates "that global demand for scrap paper hasn't diminished."

Export	Destination	New York	Chicago	LA	SF/Oakland
Mixed (54)	Asia	22-35	12-15	32-35	27-30
OCC (11)	Asia	112-115	117-120	122-125	117-120
SRPN (56)	Asia	37-40	27-30	42-45	37-40
SOP (37)	China	242-245	•	247-250	242-245

Domestic	New England	New York	Buffalo	Midwest (Chicago)	Southeast	Southwest	Los Angeles	San Francisco	Pacific Northwest
Mixed (54)	0-5	0-5	0-5	0-5	0-5	5-10	15-20	10-15	5-10
OCC (11)	70-75	65-70	65-70	65-70	80-85	85-90	65-70	55-60	45-50
SRPN (56)	20-25	25-30	20-25	30-35	30-35	20-25	50-55	40-45	35-40
SOP (37)	•	185-195	•	185-195	180-190	185-195	195-205	195-205	170-180

*U.S. dollars per short ton for open market purchases by mills. Domestic prices are FOB seller's dock for delivery in January as reported by Fastmarkets RISI's PPW Yellow Sheet Jan. 7, while export prices are FAS port of origin. New York includes ports in northern New Jersey and LA includes Long Beach and LA ports. Prices used with permission from PPW Yellow Sheet. Free trial available at www.risi.com/it.



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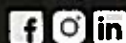
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“Ultimately, the investment in quality is a good thing that should have happened a long time ago.”

– a broker based on the East Coast

ADOPTING A POSITIVE ATTITUDE

Plastics recyclers were challenged in many ways throughout 2018, but that doesn't mean they are not hopeful heading into 2019.

A broker based on the East Coast says he has a positive outlook heading into the year. “The setbacks this year with quality, etc., are not setbacks in my eyes,” he says. “They are investments in the marathon of the next 20 to 30 years. The path the market was on prior was not sustainable, and with China exiting the correction sped up.”

He continues, “I think the bottom is already in and we are going to see positive growth in 2019 in both quality and pricing as new markets and opportunity create additional demand.”

A plastics reprocessor based in the Southeast shares the broker's optimism. “I'm feeling positive about the year ahead,” she says.

The reprocessor views the events of the last year as growing pains for the recycling industry. “It was a long year, and we did a lot of work, but we are coming around to where it is manageable.”

The last year placed an emphasis on quality, and the broker, who sells material for a number of material recovery facilities (MRFs), says he sees plant operators working to improve the quality of the plastic bales they produce.

“In a tough market, it's critical to have your material [available] to as many markets as possible,” the broker says. “The benefit of the brokerage is that it allows you to focus on your business, while the relationship and marketing of your material is handled by others. The division of labor is critical in these times because MRFs have enough work to do focusing on the quality standards.”

MRF operators are not the only ones concerned about quality. He mentions that some towns, particularly those on Long Island, are moving away

from single-stream recycling to dual-stream recycling programs in an effort to improve the quality of the recyclables they recover and market.

Brookhaven, New York, is one such town. After losing its contract with MRF operator Green Stream Recycling, also known as Hudson Baylor Brookhaven, in October 2018, the town has returned to dual-stream recycling “in an effort to move forward with the cleanest, most efficient recycling process as possible,” according to an article in *The Long Island Advance*.

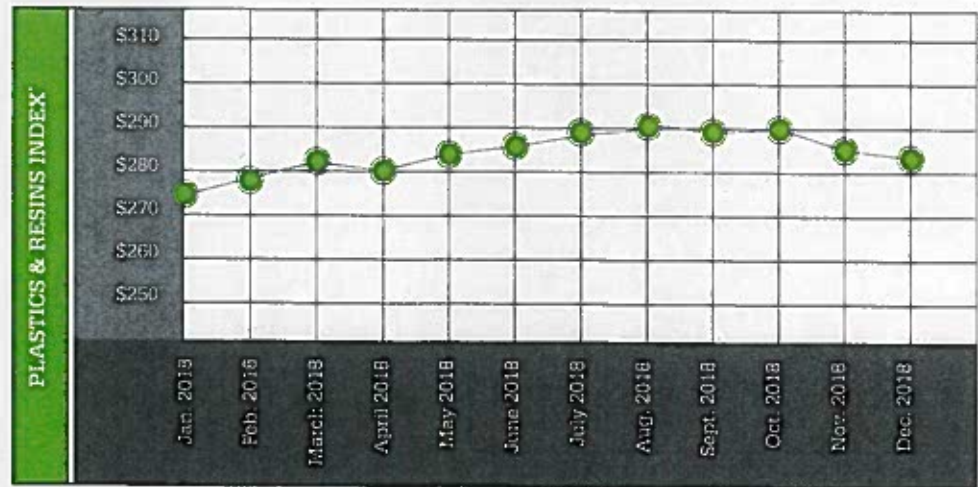
Other towns in the area that have converted to dual-stream recycling are Huntington, Smithtown and Southold, New York.

“Ultimately, the investment in quality is a good thing that should have happened a long time ago,” the broker says.

He says demand for low-density polyethylene (LDPE) film and mixed rigid plastics (MRP) has decreased because of export restrictions. Demand for polyethylene terephthalate (PET) and natural high-density polyethylene (HDPE) has been stable, though pricing is flat. “HDPE color dropped quite a bit in 2018, but we've seen it rebound lately.”

The reprocessor says pricing for engineering grades dropped considerably in the export and domestic markets during the last quarter and remained soft heading into 2019. “There is still movement in export, but the pricing isn't there,” she adds.

The company she represents is shipping reprocessed flakes and pellets to China, though she says China Certification & Inspection Group (CCIC) inspections are rigorous and time consuming. Container availability also is an issue. “We are only able to get 40 [foot] high cubes; no more 45s are going out to China.”



*Producer price index is based on December 1980 average prices as 100; source: U.S. Bureau of Labor Statistics

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WM charts market shift and other industry trends

By Colin Staub



Waste Management's latest sustainability report delves into factors impacting the recycling industry

as a whole, including fluctuating markets, sustainable materials management, technological advances and more.

After sharply reducing recyclables shipments to China over the past year, the publicly traded company offered details on where that displaced material is now finding a home.

Waste Management publishes a large report every two years and a shorter update on the off years. The 2018 report focuses on company progress in 2017 but also includes key details about how Waste Management adapted to the fast-changing industry in 2018.

BY THE NUMBERS

The Houston-headquartered hauler collected more than 15 million short tons of recyclables

in 2017, which is almost double what Waste Management sorted and sold a decade ago.

The vast majority of collected material in 2017 was paper, which made up 9 million tons of the total. Organics made up 3.4 million tons, glass contributed 771,000 tons and plastic 433,000 tons.

Waste Management operates 44 single-stream MRFs and two dual-stream recycling facilities. The company also runs 29 commercial or paper-only recycling operations, 40 composting, chipping and grinding facilities, and 11 C&D facilities.

The company services 18.3 million residential customers and 1.2 million commercial and industrial customers. In 2017, Waste Management held 2,645 municipal collection contracts.

A YEAR OF ADJUSTMENT

The report notes that when the Chinese government implemented Green Fence in 2013, Waste Management began a push to move material to alternative markets outside of China,

looking to shield itself from market disruptions.

"In the five years since, we have grown our markets and strengthened our international commodities team," the report states, describing more than 50 contract workers in offices in Mexico, China, India and elsewhere.

Despite getting an early start on diversifying its downstream destinations, the company saw some major shifts between 2017 and 2018.

China brought in 27 percent of Waste Management's entire volume of recyclables in 2017, a portion that dropped to just 5 percent in 2018. The decrease was accompanied with growth in other markets: U.S. end users bought 68 percent of the hauler's recyclables in 2018, up from 63 percent a year earlier. India increased its share of Waste Management's recyclables from nearly 5 percent to more than 15 percent.

RETHINKING RECYCLING

In addition to recycling markets in flux, the core concept of recycling is undergoing a review. Environmental experts are increasingly calling

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SUSTAINABILITY REPORT (CONT.)

for a sustainable materials management (SMM) approach to waste management. This approach promotes managing materials in a way that provides the best benefit from a life-cycle perspective.

Waste Management adopted this approach two years ago, when its sustainability report noted the company will talk less about tonnage of material recycled and more about greenhouse gas emissions avoidance and energy savings.

The new report reinforces the company's SMM focus.

"We are doing our part to drive needed change in recycling by encouraging all stakeholders to rethink recycling," wrote Jim Fish, CEO of Waste Management, in an introduction to the report. "This starts by remembering that recycling is not simply about landfill diversion. It is about product transformation and reuse, and it's about real environmental and resource conservation benefits."

To illustrate the importance of SMM considerations, Waste Management calculated that it avoided more than 32.5 million metric tons of carbon dioxide equivalent through its recycling activities alone. Further, the company found that 60 percent of its overall emissions reduction comes from its recycling activities.

One of the company's goals involves "expanding the productivity of our recycling operations, with an emphasis on increasing the recycling of those materials that provide the greatest GHG reduction benefit." The report includes a chart comparing the emissions reductions associated with various commodities.

TECHNOLOGICAL ADVANCEMENT

Waste Management has invested more than \$1 billion in processing infrastructure over the past three decades, according to the report. In 2017, the company spent \$22 million in recycling infrastructure investments, up more than \$13 million from the year before.

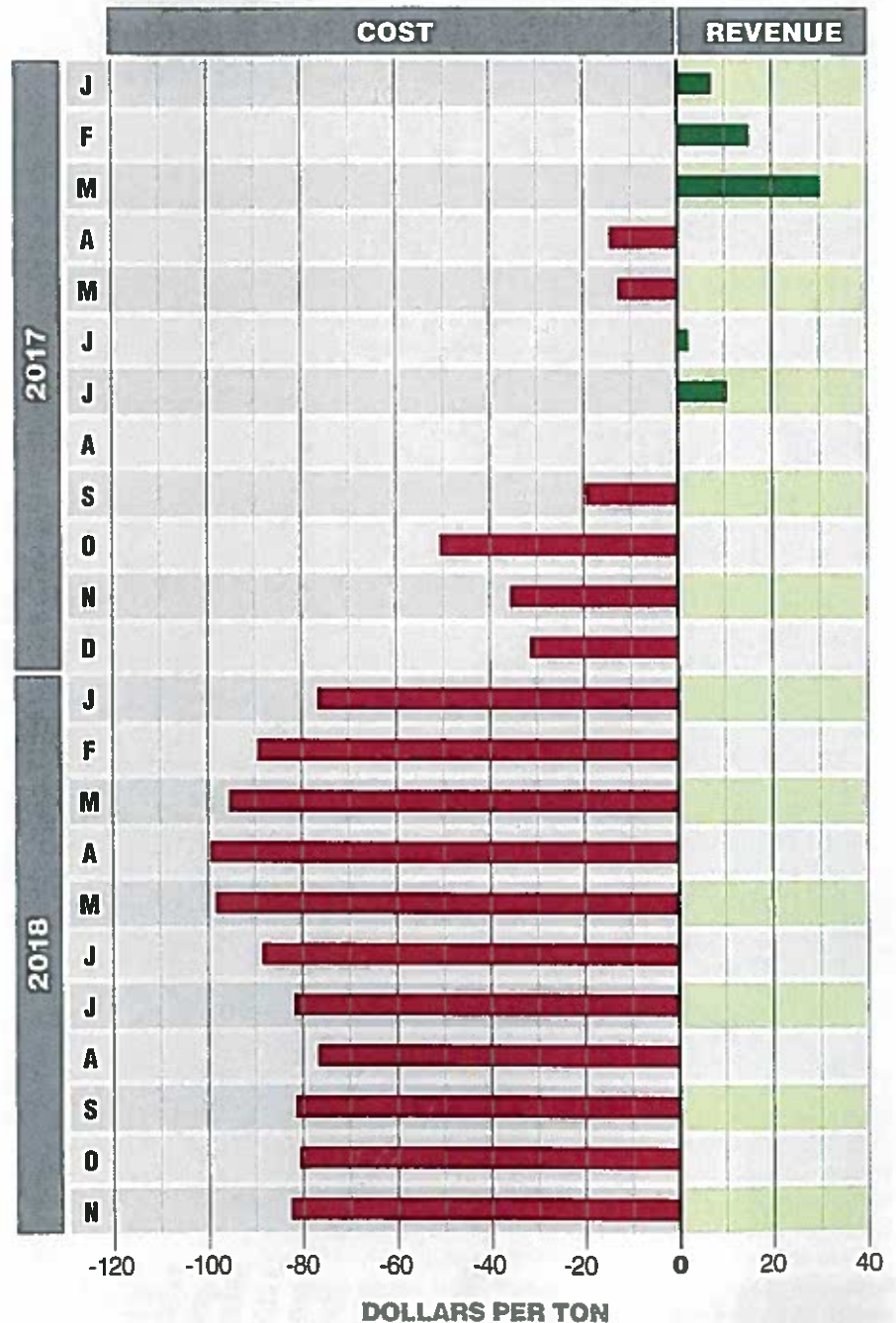
In 2017, Waste Management installed its first robot in a MRF, placing it at a Houston facility. The technology will help improve quality control and increase worker safety, Fish wrote.

The robot performs some 55 picks per minute, which the company stated is slightly quicker than 1.5 human workers on a per-minute basis.

At the curb, the company is testing new technologies, as well. Waste Management is experimenting with cameras onboard collection trucks. The cameras examine each cart of recyclables as it's picked up, and together with a computer system they can provide that customer with feedback on their recycling habits. ■

How market shifts have hit one municipal program

In late 2018, officials in the city of Walla Walla, Wash. (population 32,000) issued a report that showed the economics of the city's single-stream curbside recycling program turned upside down over the course of 18 months. As the graph below indicates, the city went from earning up to \$30 per ton for recyclables in early 2017 to paying as much as \$100 per ton a year later. Over the course of 2018, the city's program lost a total of \$130,000. Walla Walla, which attributed the financial flip primarily to China's National Sword import policy, has instituted a monthly recycling surcharge on resident bills to help get the program back on solid financial footing. The city's program collects standard fiber items and plastics Nos. 1 and 2. It does not accept glass. ■



Source: City of Walla Walla, Wash.

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■ MARKET INSIGHT

RECYCLING MARKET PROGNOSIS *Commodity forecasts for February and March*

	FERROUS	NON-FERROUS	PAPER	PLASTIC
DEMAND	Down slightly	Waiting for improvement	Barely sufficient	Bales will move
PRICE	Slowly slipping	Unattractive	Hopefully increasing	Up and down

FERROUS

Local scrap yards saw declining interest in processed metal at the beginning of the year. In broad terms, weaker domestic and export demand led to a \$30 per gross ton decline in the value of ferrous scrap. Industry insiders suggest these market conditions will prevail through the first quarter.

NON-FERROUS

With U.S. and Chinese officials moving closer to a trade agreement, the value of copper rose on the global metal exchanges in recent weeks. In comparison, negative market conditions prevail for aluminum, with the global supply of virgin and recycled metal exceeding demand. As a result, the value of scrap aluminum cans is at a decade low.

PAPER

Recovered paper suppliers found a flat market as 2019 began. With the market impact of the Chinese Lunar New Year being felt, market players are awaiting the seasonal demand increase that often occurs each spring.

 **PRICE UPDATE FOR CURBSIDE MATERIALS**

New year brings stable prices for many recyclables

Prices for post-consumer papers and plastics showed stability in the first two weeks of 2019, but cash fetched for aluminum has continued to slide.

The national average for **corrugated containers (PS 11)** remains in the \$70.00-per-ton range, compared with \$105.00 per ton one year ago. **Mixed paper (PS 54)** is still trading at a nominal average low of \$4.69 per ton. That's down from \$32.00 per ton one year ago.

Sorted residential papers (PS 56) continues unchanged over the past month, at \$31.00 per ton. The grade's price was \$58.00 per ton in January 2018.

The national average price for **baled aluminum cans** is now down to about 60.19 cents per pound. This represents a significant drop from the high of 70.19 cents per pound one year ago. In December, aluminum cans were trading in the 66.00-cents-per-pound range.

The national average price of **post-consumer PET beverage bottles and jars** is currently trading at 15.11 cents per pound. One month ago, this grade was trading comparably at 15.03 cents per pound. One year ago, PET was trading at 13.76 cents per pound. By comparison, the national average peaked at 17.11 cents per pound in June 2018.

The price of **natural high-density polyethylene (HDPE)** from curbside collection programs remains constant. The current national average price is 38.88 cents per pound, compared to 38.69 cents in mid-December. With the exception of the West Coast and Pacific regions, where the average remains in the 33.00-cents-per-pound

range, the national average in all other regions continues in the 42.00-cents-per-pound range. This represents a significant increase over one year ago, when the national average for this grade was 29.97 cents per pound. The national average price of **color HDPE** went up from 15.09 cents per pound in early January 2018 to the current average of 16.41 cents per pound.

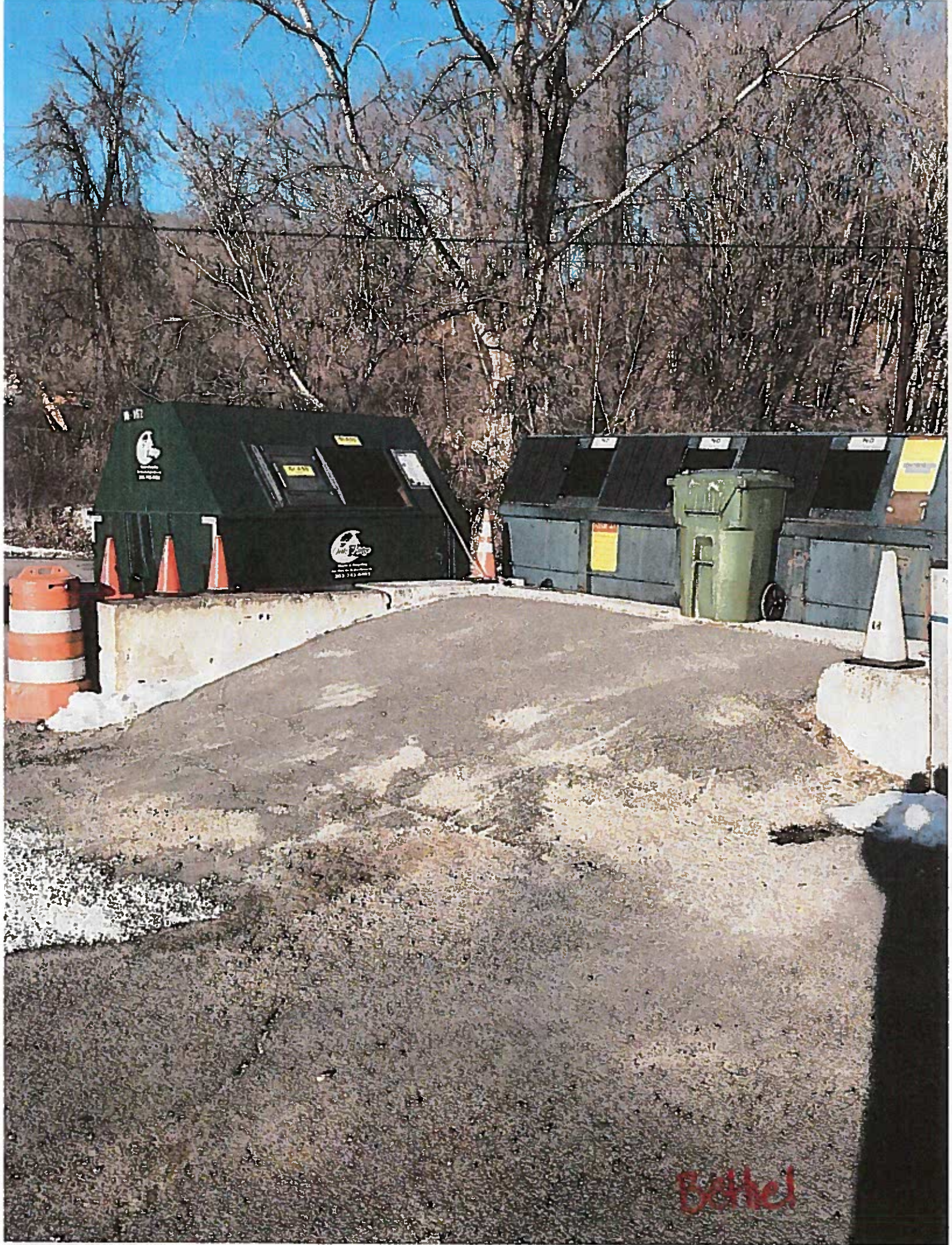
The national average price of **post-consumer PP** is currently 12.50 cents per pound, up from 8.38 cents per pound one year ago.

The national average price of all post-consumer film grades remains low compared to one year ago. **Grade A film** is trading at 8.81 cents per pound, compared with 11.31 cents per pound one year ago. **Grade B film** is trading at 2.47 cents per pound, compared with 4.06 cents per pound one year ago. **Grade C film** remains at 1.44 cents per pound. ■

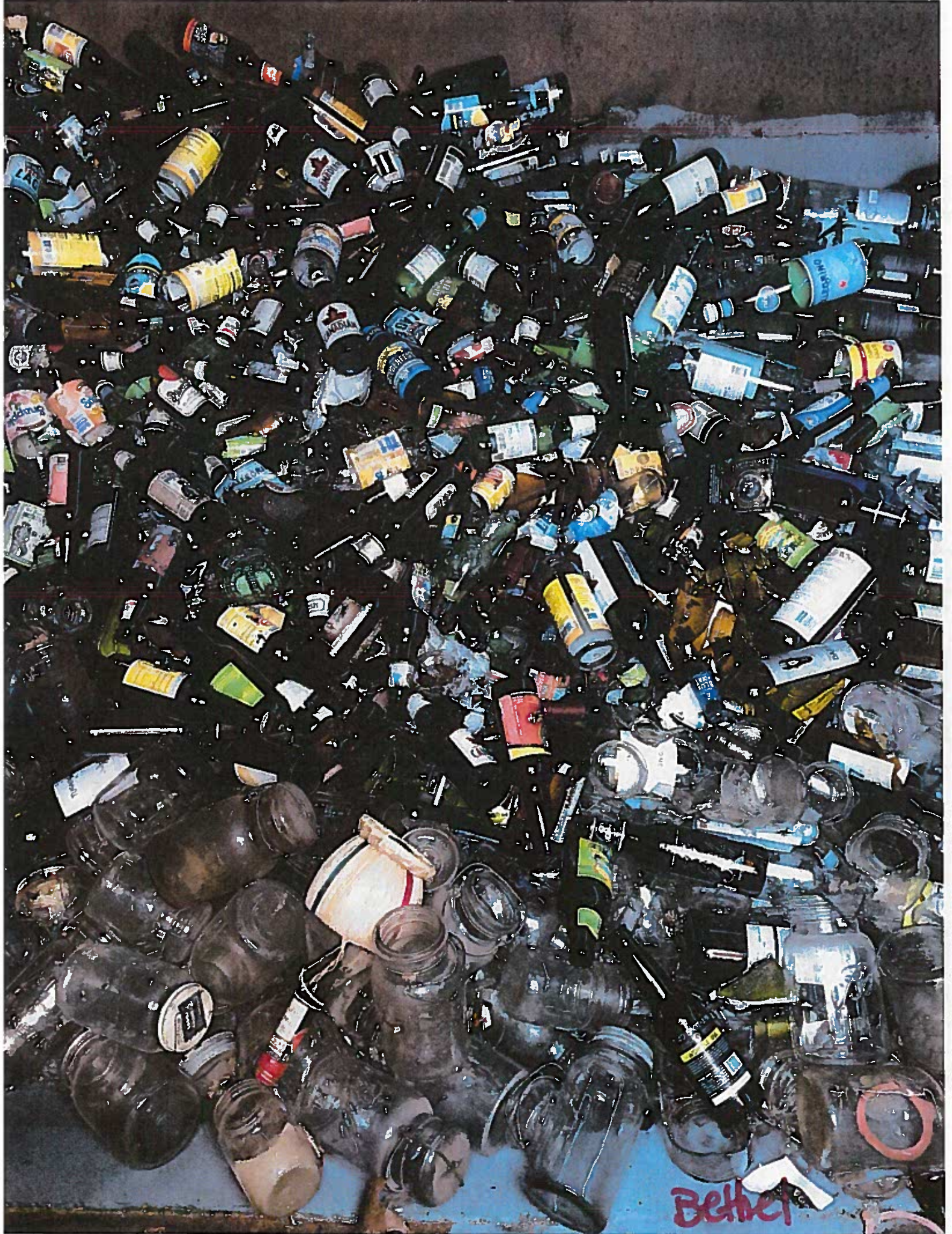
These prices are as reported on the Secondary Materials Pricing (SMP) Index in mid-January 2019. This pricing represents what is being paid for post-consumer recyclable materials in a sorted, baled format, picked up at most major recycling centers.

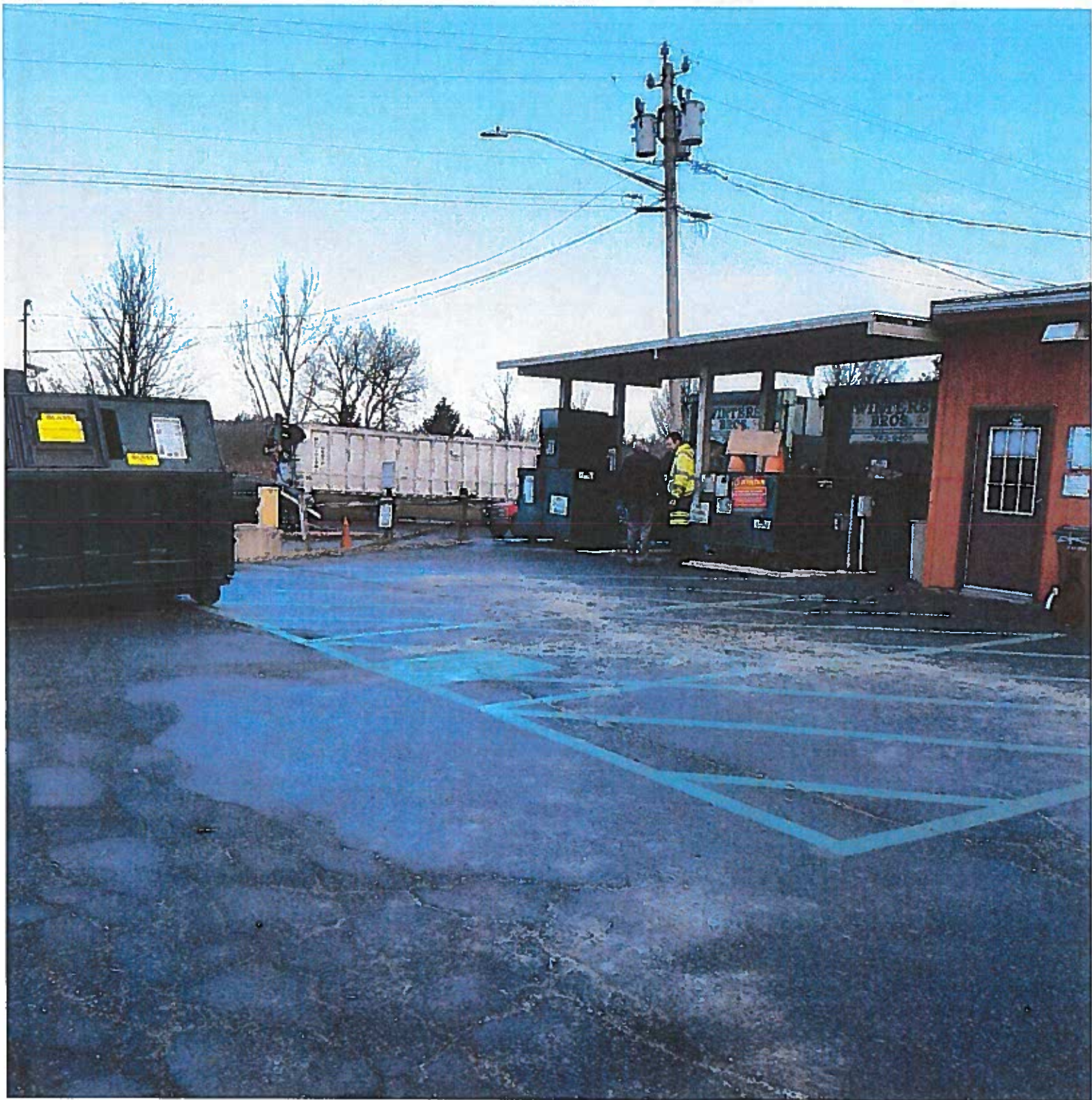
For a free trial to SMP's Online Post-Consumer Pricing Index, visit the Recycling Markets website. You can also contact Christina Boulanger-Bosley at cmb@recyclingmarkets.net or 330-956-8911.

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Bethel





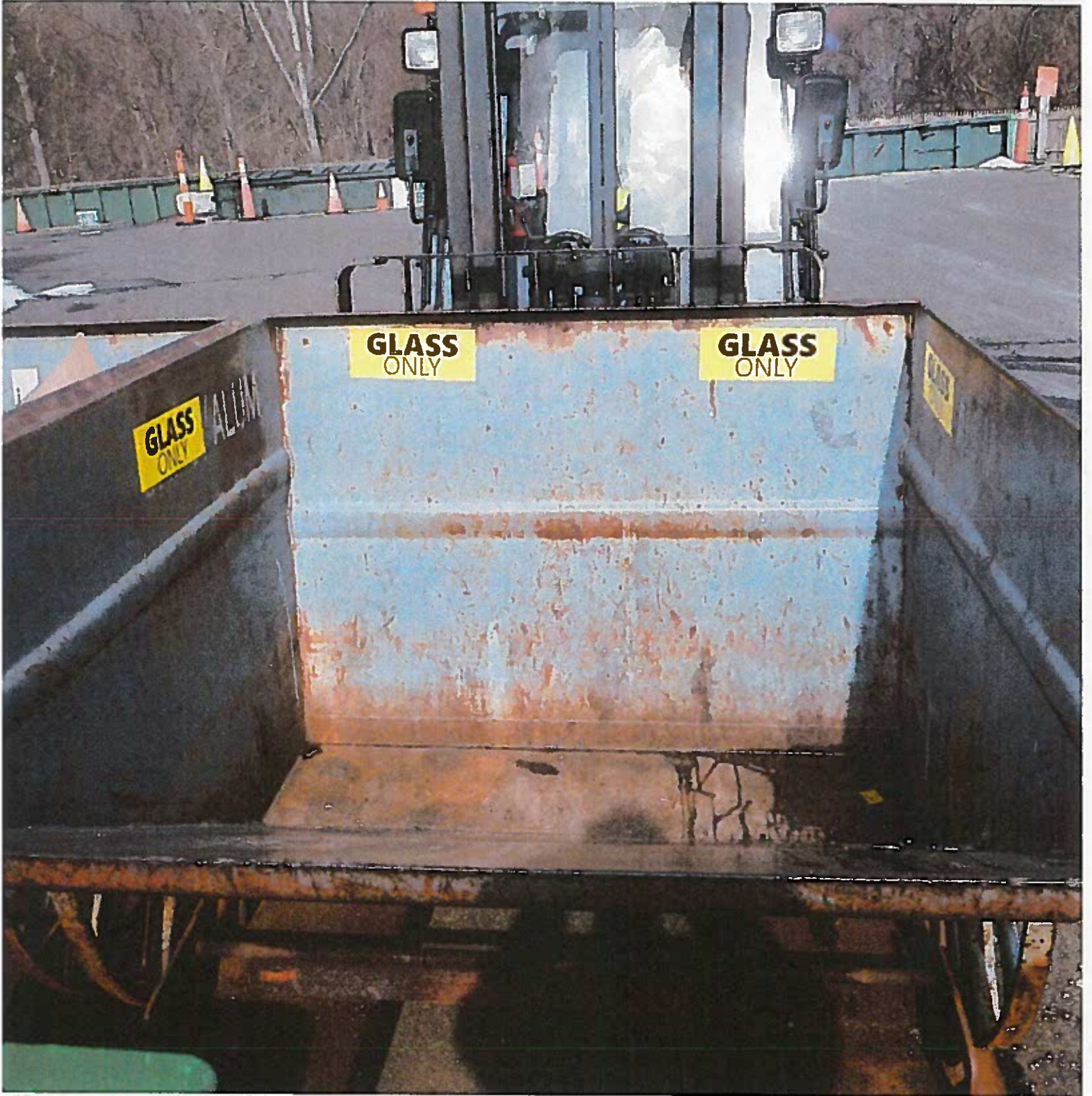
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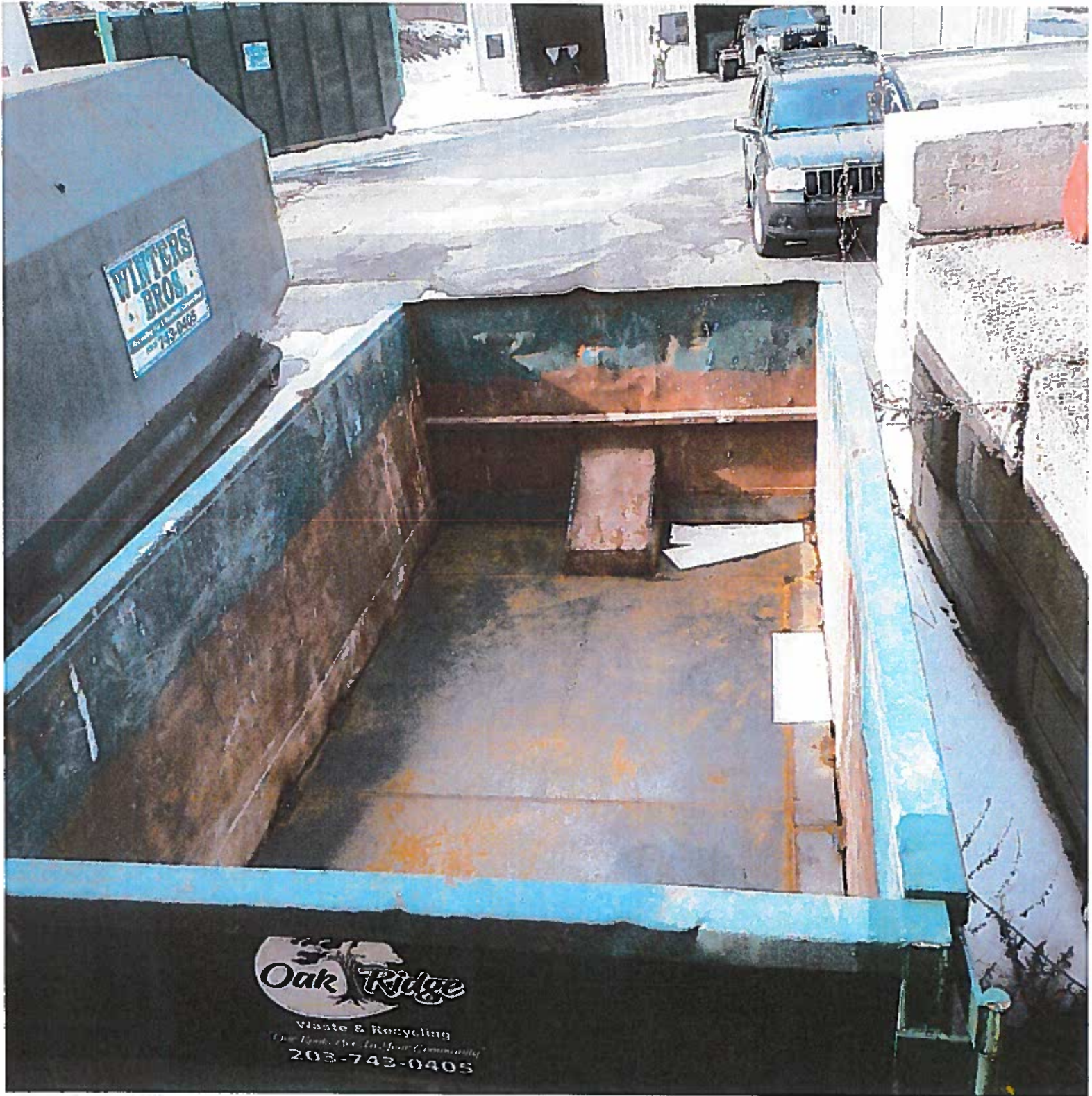
Ridgefield



Ridgefield



Redding



Redding