



**HOUSATONIC RESOURCES RECOVERY AUTHORITY**

**Monday, March 2, 2020 10:30 a.m.**

**Brookfield Town Hall – Room 133**

**100 Pocono Road, 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 13, 2019 (*Attachment B*)
  - b. \*Financial statements through January 31, 2020 (*Attachment C*)
6. Old business
  - a. Recycling market update (*Attachment D*)
  - b. Glass program update
7. New business
  - a. Presentation by Andela Products – Glass pulverizing system (*Attachment E*)
  - b. \*New Membership to the HRRRA
  - c. \*Household Hazardous Waste events for 2020 (*Attachment F*)
  - d. \*HRRRA 2020 Legislative Agenda
  - e. \*PAYT next steps
  - f. \*Personnel - Benefits for Employees (*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 15th, 2019 to February 29<sup>th</sup>, 2020**

### **MSW and Recycling Tonnage Reports**

- The MSW and recycling tonnage reports through January 30<sup>th</sup> are attached.
- MSW tonnage year to date is running at **103%** compared to the same time last year.
- Recycling tonnage is running at **131%** compared to the same time last year.
- E-waste tonnage is running at **93%** compared to the same time last year.
- Glass collected from Bethel, Redding and Ridgefield March 1, 2019 to Feb. 15, 2020 – **162.79 tons**

### **Public Education Update**

<b>Town</b>	<b>School/Organization</b>	<b># Students/People</b>
<b>New Milford</b>	Northville Elementary	420
<b>Newtown</b>	Men's Club	20

### **Upcoming Public Education events:**

February 27<sup>th</sup> Public TV with Lynn Waller

March 5<sup>th</sup> New Fairfield High School

March 24<sup>th</sup> New Morning Market

April 23<sup>rd</sup> Burnham Library, Bridgewater

May 26<sup>th</sup> Hawley School, Newtown

June 23<sup>rd</sup> Burnham Library, Bridgewater

### **Meetings /Activities from December to February 2020**

- J. Heaton-Jones researched the HRRRA joining the Partnership 2.0 for employee health care benefits in December and brought the findings to the Executive Committee in January
- The Director continues to be involved in the Northeast Recycling Coalition subcommittee on glass and markets
- All American Waste is bringing recyclables back into the HRRRA system.
- Met with the town of Easton's Conservation Commission to review the HRRRA glass pilot program
- Met with CT DEEP and other Executive Directors of Resource Recovery Authorities and COGs to discuss material management issues in the state.
- Met with Fire Control Services of New Milford to discuss the issue of fire extinguishers and how they could partner with the HRRRA to address collection and disposal. Tom McSherry the President of Fire Control Services attended the February RRTF meeting. He reviewed the different types of extinguishers, the agents used inside, dismantling the units, issues of disposal and cost. He agreed he would be interested in creating a partnership with the HRRRA to collect the units from municipal recycling centers.
- Met with Jean Speck, the First Selectman of Kent, to review HRRRA services and to discuss the Town of Kent potentially collecting organics at the transfer station.

**ATTACHMENT A1**

- Presented the HRRR glass collection program at the February Solid Waste Advisory Committee meeting.
- A. Miles, F. Hurley, S. Dunn and J. Heaton-Jones attended the Connecticut Recyclers Coalition annual conference in Hartford.
- J. Heaton-Jones received the Municipal Achievement Award for "outstanding contributions to Connecticut's recycling and material management efforts"
- Held a meeting with representatives of Newtown, New Fairfield, Redding, Ridgefield and Bridgewater to discuss the current conditions of each town's organics collection program and what can be done to improve the experience for residents and create stronger participation.
- The Executive Committee met in early February to discuss health benefits and changes to the Personnel Policy.
- J. Heaton-Jones reconvened the Connecticut Product Stewardship Council to discuss legislation for hard to dispose and or dangerous items in the waste stream. A priority list was created, and the group decided to push for legislation for fuel cylinders, lithium batteries and packaging.
- The Director participated in several state and national calls around EPR.
- Took part in several newspaper interviews and a radio piece regarding the issue of glass and the HRRR pilot program.
- Met with Sen. Miner and Rep. Demicco to discuss their co-sponsorship of the proposed cylinder EPR
- Met with the CRC to discuss support for the modernization and expansion of the bottle bill.
- Interviewed five candidates for the full-time position to replace T. Carlson.
- Met with the Town of Brookfield to discuss how to improve their material management strategies for residents.

#### **Dates to add to calendar**

- April 22<sup>nd</sup> Billboard Contest Award Ceremony
- May 4<sup>th</sup> HRRR Meeting
- May 9<sup>th</sup> HHW Bethel
- June 6<sup>th</sup> HHW Newtown
- June 22<sup>nd</sup> HRRR Meeting
- Sept. 12<sup>th</sup> HHW Brookfield
- Sept. 28<sup>th</sup> HRRR Meeting
- Oct. 10<sup>th</sup> HHW Ridgefield
- Nov. 7<sup>th</sup> HHW Danbury
- Dec. 4<sup>th</sup> HRRR Meeting

### HRRR - MSW Tonnage

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	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	11,023.81	11,023.81
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	8,863.32		
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	9,948.73		
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	11,502.64		
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	12,115.93		
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	11,396.48		
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	12,347.13		
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	11,546.06		
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	10,976.99		
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	11,766.79		
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	10,886.55		
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	11,058.63		
<b>Total Tons YTD</b>	<b>140,418.20</b>	<b>140,190.73</b>	<b>133,643.29</b>	<b>124,945.35</b>	<b>116,642.97</b>	<b>110,681.10</b>	<b>108,622.38</b>	<b>114,068.06</b>	<b>131,277.05</b>	<b>133,154.75</b>	<b>11,023.81</b>	<b>103%</b>
% of WSDA Benchmark Annual Tonnage (115,284)	122%	122%	116%	108%	101%	96%	94%	99%	114%	116%		

### HRRR MSW Program Fee

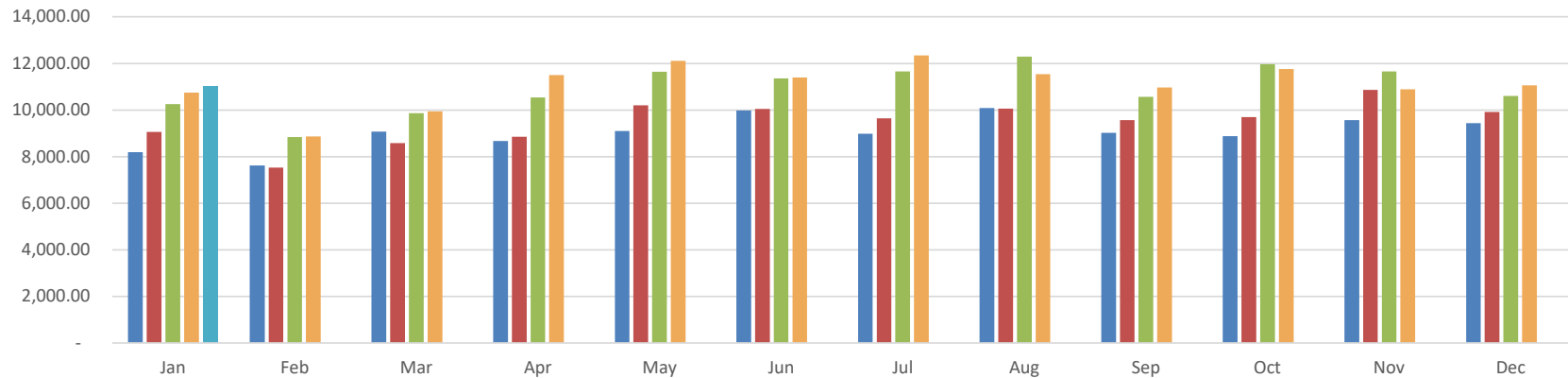
	Calendar 2010	Calendar 2011	Calendar 2012	Calendar 2013	Calendar 2014	Calendar 2015	Calendar 2016	Calendar 2017	Calendar 2018	Calendar 2019		
Program Fee Earned YTD	\$96,888.56	\$107,946.86	\$102,905.33	\$98,706.83	\$94,480.81	\$110,681.10	\$108,622.38	\$114,068.06	\$131,277.05	\$201,736.89		
Program Fee Pd To HRRR 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	\$131,277.05	\$201,736.89		



### HRRA - MSW Tonnage Year-to-Date

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	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	11,023.81	
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	8,863.32		
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	9,948.73		
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	11,502.64		
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	12,115.93		
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	11,396.48		
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	12,347.13		
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	11,546.06		
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	10,976.99		
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	11,766.79		
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	10,886.55		
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	11,058.63		
<b>Total Tons YTD</b>	<b>140,418.20</b>	<b>140,190.73</b>	<b>133,643.29</b>	<b>124,945.35</b>	<b>116,642.97</b>	<b>110,681.10</b>	<b>108,622.38</b>	<b>114,068.06</b>	<b>131,277.05</b>	<b>133,154.75</b>	<b>11,023.81</b>	<b>103%</b>
<b>% of WSDA Benchmark Tonnage (115,284)</b>												

MSW Tonnage - CY 2016, 2017, 2018, 2019, 2020

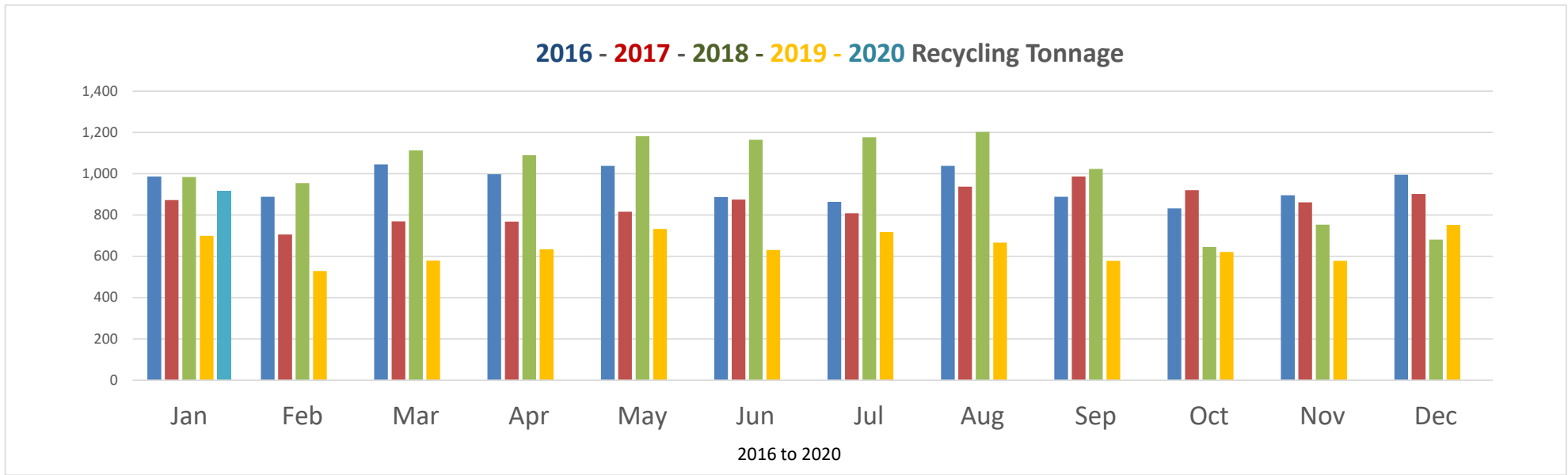


### Transfer Station Tonnage By Month/Year

	Newtown TS				Danbury TS				Ridgefield TS				Total HRRR TS			
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
January	950.27	982.59	1,002.41	1,062.43	7,462.73	8,405.51	8,971.96	8,913.98	647.62	868.68	771.13	1,047.40	9,060.62	10,256.78	10,745.50	11,023.81
February	800.21	855.90	844.91		6,090.42	7,334.32	7,468.26		644.79	650.87	550.15		7,535.42	8,841.09	8,863.32	-
March	870.68	906.25	945.78		7,013.76	8,198.48	8,235.01		699.77	764.02	767.94		8,584.21	9,868.75	9,948.73	-
April	961.32	978.02	1,053.47		7,011.09	8,663.24	9,493.57		880.79	905.79	955.60		8,853.20	10,547.05	11,502.64	-
May	1,079.50	1,012.80	1,133.62		8,231.91	9,774.37	9,960.55		897.66	863.49	1,021.76		10,209.07	11,650.66	12,115.93	-
June	1,094.92	1,144.93	1,126.44		7,970.15	9,238.29	9,203.35		990.13	978.01	1,066.69		10,055.20	11,361.23	11,396.48	-
July	1,039.78	1,103.59	1,179.01		7,693.25	9,728.22	10,199.80		917.25	823.04	968.32		9,650.28	11,654.85	12,347.13	-
August	1,078.03	1,103.31	1,134.35		8,056.60	10,341.61	9,573.29		930.47	850.06	838.42		10,065.10	12,294.98	11,546.06	-
September	1,012.80	1,022.77	1,024.63		7,692.85	8,747.68	9,077.36		863.49	794.00	875.00		9,569.14	10,564.45	10,976.99	-
October	976.78	1,101.46	1,054.20		7,796.18	9,916.47	9,825.84		923.35	951.65	886.75		9,696.31	11,969.58	11,766.79	-
November	1,071.60	1,065.06	1,117.60		8,828.15	9,708.42	8,940.54		964.29	886.92	828.41		10,864.04	11,660.40	10,886.55	-
December	993.69	1,025.22	1,130.90		8,141.78	8,733.40	8,942.84		789.95	847.61	984.89		9,925.42	10,606.23	11,058.63	-
Total YTD	11,929.58	12,301.90	12,747.32	1,062.43	91,988.87	108,790.01	109,892.37	8,913.98	10,149.56	10,184.14	10,515.06	1,047.40	114,068.01	131,276.05	133,154.75	11,023.81
% of Total Tonnage	10.5%	9.4%	9.6%	9.6%	80.6%	82.9%	82.5%	80.9%	8.9%	7.8%	7.9%	9.5%	100.0%	100.0%	100.0%	100.0%
	Newtown TS				Danbury TS				Ridgefield TS				Total HRRR TS			

# HRRA/Regional Recycling Facility Tonnage

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 YTD as % of 2019 YTD
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	918	
Feb	534	630	566	616	537	656	566	756	759	888	705	954	529		
Mar	692	675	593	742	558	715	652	869	901	1,045	769	1,112	579		
Apr	697	604	606	727	518	693	600	995	988	997	768	1,089	634		
May	738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181	732		
Jun	709	637	832	607	640	790	647	1,010	1,059	887	875	1,163	630		
Jul	681	660	823	543	616	745	975	1,043	1,070	864	808	1,176	717		
Aug	755	609	753	562	721	811	980	975	979	1,037	937	1,202	666		
Sep	638	639	763	563	708	691	998	1,050	1,016	888	986	1,023	578		
Oct	746	639	742	540	656	684	956	1,043	949	832	920	645	620		
Nov	791	640	804	569	715	737	868	915	1,025	895	861	754	578		
Dec	775	837	866	653	801	677	982	1,180	1,229	995	901	681	751		
<b>Total Tons YTD</b>	<b>8,437</b>	<b>7,988</b>	<b>8,702</b>	<b>7,567</b>	<b>7,608</b>	<b>8,670</b>	<b>9,618</b>	<b>11,869</b>	<b>11,972</b>	<b>11,351</b>	<b>10,217</b>	<b>11,964</b>	<b>7,715</b>	<b>918</b>	<b>131%</b>

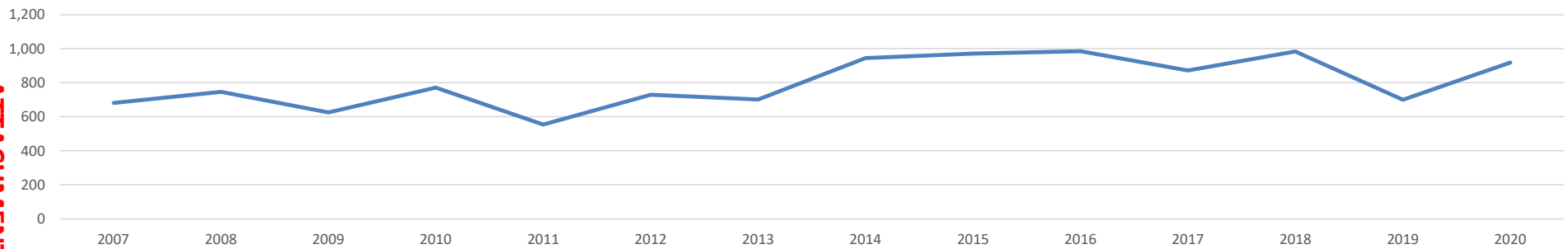


## HRRR/Regional Recycling Facility Tonnage

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 YTD as % of 2019 YTD	
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	918		Jan
Feb	534	630	566	616	537	656	566	756	759	888	705	954	529			Feb
Mar	692	675	593	742	558	715	652	869	901	1,045	769	1,112	579			Mar
Apr	697	604	606	727	518	693	600	995	988	997	768	1,089	634			Apr
May	738	672	729	674	584	742	692	1,089	1,026	1,037	815	1,181	732			May
Jun	709	637	832	607	640	790	647	1,010	1,059	887	875	1,163	630			Jun
Jul	681	660	823	543	616	745	975	1,043	1,070	864	808	1,176	717			Jul
Aug	755	609	753	562	721	811	980	975	979	1,037	937	1,202	666			Aug
Sep	638	639	763	563	708	691	998	1,050	1,016	888	986	1,023	578			Sep
Oct	746	639	742	540	656	684	956	1,043	949	832	920	645	620			Oct
Nov	791	640	804	569	715	737	868	915	1,025	895	861	754	578			Nov
Dec	775	837	866	653	801	677	982	1,180	1,229	995	901	681	751			Dec
<b>Total Tons YTD</b>	<b>8,437</b>	<b>7,988</b>	<b>8,702</b>	<b>7,567</b>	<b>7,608</b>	<b>8,670</b>	<b>9,618</b>	<b>11,869</b>	<b>11,972</b>	<b>11,351</b>	<b>10,217</b>	<b>11,964</b>	<b>7,715</b>	<b>918</b>	<b>131%</b>	<b>YTD</b>

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	FY YTD
Jan	681	746	625	771	554	729	702	944	971	986	872	983	700	918	131.13%
Feb															
Mar															
Apr															
May															
Jun															
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
<b>Total Tons YTD</b>	<b>681</b>	<b>746</b>	<b>625</b>	<b>771</b>	<b>554</b>	<b>729</b>	<b>702</b>	<b>944</b>	<b>971</b>	<b>986</b>	<b>872</b>	<b>983</b>	<b>700</b>	<b>918</b>	<b>131%</b>

January



## 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	CY 2020		2020 YTD as % of 2019 YTD
	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	\$1,784.38	700	\$5,247.08	-\$897.30	917.93	\$4,589.65	-\$657.43
Feb	888	\$8,880.00	705	\$3,525.00	-\$5,355.00	954	\$5,963.19	\$2,438.19	529	\$3,967.80	-\$1,995.39			
Mar	1,045	\$10,450.00	769	\$3,845.00	-\$6,605.00	1,112	\$6,949.69	\$3,104.69	579	\$4,341.00	-\$2,608.69			
Apr	997	\$4,985.00	768	\$3,841.10	-\$1,143.90	1,089	\$6,808.41	\$2,967.31	634	\$4,755.60	-\$2,052.81			
May	1,037	\$5,185.00	815	\$4,075.00	-\$1,110.00	1,181	\$7,382.31	\$3,307.31	732	\$5,492.55	-\$1,889.76			
Jun	887	\$4,435.00	875	\$4,375.00	-\$60.00	1,163	\$7,270.88	\$2,895.88	630	\$4,725.00	-\$2,545.88			
Jul	864	\$4,320.00	808	\$6,060.00	\$1,740.00	1,176	\$8,822.93	\$2,762.93	717	\$3,585.00	-\$5,237.93			
Aug	1,037	\$5,185.00	937	\$7,027.50	\$1,842.50	1,202	\$9,017.40	\$1,989.90	666	\$3,328.25	-\$5,689.15			
Sep	888	\$4,440.00	986	\$7,395.68	\$2,955.68	1,023	\$7,671.23	\$275.55	578	\$2,890.50	-\$4,780.73			
Oct	832	\$4,160.00	920	\$6,902.48	\$2,742.48	645	\$4,837.65	-\$2,064.83	620	\$3,101.65	-\$1,736.00			
Nov	895	\$4,475.00	861	\$5,378.44	\$903.44	754	\$5,651.48	\$273.04	578	\$2,890.50	-\$2,760.98			
Dec	995	\$4,975.00	901	\$5,632.00	\$657.00	681	\$5,108.70	-\$523.30	751	\$3,756.20	-\$1,352.50			
	11,351	\$71,350.00	10,217	\$62,417.19	-\$8,932.81	11,964	\$81,628.22	\$19,211.03	7,714	\$48,081.13	64%	917.93	\$4,589.65	

	FY 2016-2017	FY 2017-18	FY 2018-19	FY 2019-20	
July	864	808	1,176	717	
August	1,037	937	1,202	666	
September	888	986	1,023	578	
October	832	920	645	620	
November	895	861	754	578	
December	995	901	681	751	
January	872	983	700	918	
February	705	954	529	0	
March	769	1,112	579	0	
April	768	1,089	634	0	
May	815	1,181	732	0	
June	875	1,163	630	0	
	10,315	11,896	9,285	4,828 tons	78%
	\$51,576.10	\$78,914.93	\$69,638.40	\$24,141.75 rebate	52%

## E-waste Payments by Municipality by Quarter

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	\$ 539.08	\$ 139.16	\$ 1,560.99	\$ 471.98	\$ 1,150.52	\$ 1,876.47	\$ 284.31	\$ 1,212.66	\$ 7,235.17
Apr- Jun 2019	\$ 493.08	\$ 68.75	\$ 1,741.99	\$ 523.88	\$ 1,370.92	\$ 1,827.90	\$ 300.09	\$ 1,495.42	\$ 7,822.03
Jul - Sept 2019	\$ 729.28	\$ 123.04	\$ 3,207.60	\$ 723.84	\$ 1,940.80	\$ 2,719.60	\$ 442.88	\$ 1,980.56	\$ 12,300.72
Oct - Dec 2019									
Total	\$ 1,761.44	\$ 330.95	\$ 6,510.58	\$ 1,719.70	\$ 4,462.24	\$ 6,423.97	\$ 1,027.28	\$ 4,688.64	\$ 26,924.80

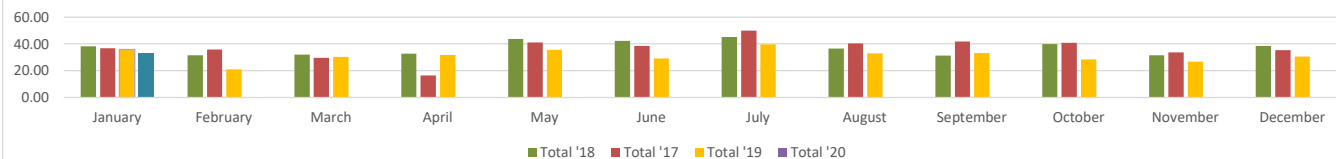
## Ewaste Tonnage

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	2.27	0.00	3.79	0.00	1.65	2.63	8.21	0.76	1.62	20.93	31.63	35.83
March	1.87	0.96	5.07	2.50	2.35	4.59	5.98	1.09	5.95	30.36	32.05	29.71
April	2.48	0.00	3.38	2.14	2.83	4.28	10.35	1.12	5.10	31.67	32.74	16.50
May	1.95	1.50	6.52	2.54	1.77	5.45	6.62	2.00	7.30	35.65	43.79	41.07
June	2.14	0.00	5.23	0.00	2.67	4.74	6.70	1.69	5.88	29.06	42.17	38.31
July	2.73	0.63	8.26	1.92	3.19	5.21	9.86	2.46	5.28	39.53	45.13	49.88
August	1.55	0.59	7.10	2.33	2.27	4.32	6.58	1.27	6.94	32.95	36.46	40.22
September	2.34	0.00	8.38	2.00	2.03	3.68	8.11	1.60	5.08	33.22	31.25	41.69
October	1.92	0.68	4.74	0.00	2.79	5.03	5.83	0.80	6.71	28.49	39.95	40.81
November	1.80	0.65	5.36	2.61	1.70	2.52	6.43	2.05	3.56	26.69	31.43	33.77
December	2.01	0.52	6.22	0.00	2.31	4.60	8.43	1.44	4.97	30.50	38.35	35.43
Total Tons	25.97	7.03	71.79	16.05	27.58	51.39	92.37	18.69	64.08	374.96	443.19	439.87
	BE	BW	DA	KE	NF	NM	NE	RE	RI	Total '19	Total '18	Total '17

2020	Bethel	Bridgewater	Danbury	Kent	New Fairfield	New Milford	Newtown	Redding	Ridgefield	Total '20	Total '19	Total '18
January	2.23	0.00	6.10	0.96	4.22	3.42	6.59	2.16	7.83	33.50	35.91	38.24
February											20.93	31.63
March											30.36	32.05
April											31.67	32.74
May											35.65	43.79
June											29.06	42.17
July											39.53	45.13
August											32.95	36.46
September											33.22	31.25
October											28.49	39.95
November											26.69	31.43
December											30.50	38.35
Total Tons	2.23	0.00	6.10	0.96	4.22	3.42	6.59	2.16	7.83	33.50	374.96	443.19
	BE	BW	DA	KE	NF	NM	NE	RE	RI	Total '20	Total '19	Total '18

E-Waste 2020, 2019, 2018, 2017



## HRRA Glass Pilot Phase I

[illegible]

Bethel		Redding		Ridgefield	
3/11/2019	2.88	4/12/2019	4.17	3/2/2019	6.59
4/10/2019	2.34	5/15/2019	4.42	3/18/2019	3.71
5/8/2019	2.50	7/10/2019	4.42	4/2/2019	3.61
6/24/2019	2.97	7/31/2019	2.12	4/24/2019	5.22
7/22/2019	2.34	9/7/2019	3.82	5/16/2019	8.44
8/20/2019	2.99	11/1/2019	4.74	6/13/2019	3.8
9/24/2019	3.43	11/11/2020	4.74	7/8/2019	5.39
10/24/2019	2.82	12/30/2020	6.30	7/17/2019	3.71
11/25/2019	2.92			8/7/2019	4.31
12/26/2019	3.01			8/24/2019	5.24
1/22/2020	3.16			9/7/2019	3.84
				9/27/2019	4.83
				10/17/2019	4.81
				11/1/2019	4.74
				11/20/2019	5.32
				12/4/2019	4.16
				12/27/2020	4.77
				1/6/2020	5.26
				1/22/2020	5.59
				2/4/2020	3.36
31.36		34.73		96.7	
				162.79	

**ATTACHMENT A11**



### Textiles Recycled by Town by Month in Pounds

HRRRA Textile Weights in Lbs. 2020 YTD														
2020	Total weight	Rebate	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Kent	970	\$48.50	970											
New Fairfield	510	\$25.50	510											
Ridgefield	1290	\$64.50	1290											
Bridgewater	320	\$16.00	320											
Bethel	700	\$35.00	700											
Redding	1320	\$66.00	1320											
Brkfield:E.H.	760	\$38.00	760											
Brkfield: M.S.	485	\$24.25	485											
Ridgfield Thrift			970											
Total	6,355	\$317.75	7325	0	0	0	0	0	0	0	0	0		
HRRRA Textile Weights in Lbs. 2019 YTD														
2019	Total weight	Rebate	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Kent	13590	\$679.50	1110	590	710	1665	1020	1400	1520	970	1655	1210	890	850
New Fairfield	4605	\$230.25	230	355	525	140	540	365	845	285	195	705	225	195
Ridgefield	14290	\$714.50	1000	745	720	640	1690	1410	1535	1150	1250	1450	1450	1250
Bridgewater	2345	\$117.25	0	0	525	0	590	305	0	0	450	275	200	0
Bethel	8745	\$437.25	615	380	410	775	1020	730	995	710	1140	710	500	760
Redding	22715	\$1,135.75	1350	1120	1910	2130	1290	2200	1940	1990	2685	2170	2120	1810
Brkfield:E.H.	10485	\$524.25	455	300	850	1180	1100	875	1355	1055	985	590	860	880
Brkfield: M.S.	4225	\$211.25	180	300	195	190	690	350	485	540	390	195	200	510
Ridgfield Thrift			0	0	0	0	0	0	0	0	0	0	910	1270
Total	81,000	\$4,050.00	4940	3790	5845	6720	7940	7635	8675	6700	8750	7305	7355	7525

ATTACHMENT A12



**HOUSATONIC RESOURCES RECOVERY AUTHORITY**

**Friday, December 13, 2019, 10:00 a.m.**

**The Amber Room Colonnade  
1 Stacey Road, Danbury, CT 06811**

<b><u>Members or Alternates Present</u></b>		<b><u>Others Present:</u></b>
Brookfield, Steve Dunn	7	Dan Rosenthal, Newtown
Danbury, Joel Urice	36	Suzanne Von Holt, New Milford
Kent, Jean Speck	1	Patti Oberg, All American Waste
New Fairfield, Pat DeMonaco	6	Mike Powers, All American Waste
New Milford, Pete Bass	12	Joe Sardone, Oak Ridge
Newtown, Herb Rosenthal	12	Glenn Nanavaty, Nanavaty & Nanavaty
Redding, Julia Pemberton	4	Chris Nelson, CT DEEP
Ridgefield, Rudolph Marconi	11	Kristin Brown, Zero Waste
Sherman, Don Lowe	2	
	<b>91</b>	

**Members Absent**

Bridgewater  
Bethel

**Call to Order:** The meeting was called to order by Vice Chairman S. Dunn at 10:04 a.m. with a quorum of 89 votes present from eight towns. S. Dunn led everyone in the pledge of allegiance. P. Bass and D. Lowe entered the meeting at 10:30am under item 4 increasing the quorum to 91 votes and nine towns.

**Public Comment:** No public comment.

**Chairman and Members' Comments:** No comments shared by the V. Chairman. H. Rosenthal expressed his continued frustration with the large trucks heading to Bridgeport from Oak Ridge. The HRRRA regional agreement states the 100 foot trailers will not use Route 25/Main Street Newtown. He asked that something be done about the violation in contract.

**Directors Report**

Executive Director J. Heaton-Jones highlighted that MSW tonnage is at 101% compared to the same time last year and recycling tonnage is at 62% to the same time last year. The glass pilot phase I has collected 122.4 tons of glass since March 1<sup>st</sup> from the towns of Bethel, Redding and Ridgefield.

The Director announced that T. Carlson resigned from the HRRRA and the Executive Committee is in the process of deciding to hire a fulltime employee to replace her or to create two part time positions.

The Director gave an update on the reconstruction of the Hartford MIRA plant.

**ATTACHMENT B1**

#### **Administrative Approvals:**

- a.) **Minutes - Motion** by J. Urice second by H. Rosenthal to approve the minutes of October 16, 2019 (Attachment A) **Vote: The motion passed unanimously;** with 91 votes in favor
- b.) **Financial Statements - Motion** by J. Urice, second by S. Von Holt, to approve the financial statements through November 30, 2019 (attachment C), as presented. **Vote: The motion passed unanimously;** with 91 votes in favor.

#### **Old Business:**

- a.) **Recycling market update** - The Director reviewed the current market conditions, highlighting attachment D7. The recycling markets have continued decline. The only material with recent improvement was HDPE.
- b.) **Glass program update** – The Director shared that Urban Mining Northeast is under construction and now plans to open in May of 2020. They are in negotiations with Oak Ridge to take both the HRRR source separated glass and MRF glass from the Shelton facility. HRRR will begin to set the plan into motion to launch a full regional glass program with a target of June 2020.

#### **New Business:**

- a.) **Review and possibly vote to accept the 2018-19 FY HRRR audit (Attachment E)** – G. Nanavaty presented the 2018-19 audit and financial highlights declaring the audit a clean opinion. **Motion** by D. Lowe, second by J. Urice to accept the 2018-19 FY HRRR audit. **The motion passed unanimously;** with 91 votes in favor
- c.) **Hauler Registration Policy for 2020-21** – The Director spoke with Legal Counsel regarding modifying the 2020-21 registration policy to reflect compliance with haulers participating in the separation of glass from the mixed stream. Haulers will be required in the new year to educate their customers that glass is no longer accepted in the mixed stream and that they also can not throw away the glass in their trash as it is a state mandated recyclable. Collectors may offer the separate collection of glass or direct their customers to take the material to a local drop-off location. Legal Counsel determined that because municipalities through state statute may create requirements and conditions in the guidelines of municipal registration and because legislation was passed to allow the separation of glass from the mixed stream at the curb the requirement in the annual registration would be legal. The Director has spoken to the Chairman and the hope is that Haulers will volunteer to participate and comply with the collection program without it being a registration issue. This policy will need to be voted on by the April HRRR meeting for the annual packets to be issued on time in May of 2020.
- d.) **Household Hazardous Waste events for 2020** – It was noted that the attachment for this agenda item was missing. The Director will be sure to add it and post it online. J. Heaton-Jones projected the attachment for the authority to see and reviewed the proposed dates for the 2020 HHW season. The proposed dates are May 2, June 6, September 5, October 3, November 7 and New Milford TBD. It was requested to change the September 5<sup>th</sup> date being it is Labor Day weekend. The Director explained that the summer dates were removed from the 2020 season due to extreme heat conditions experienced in 2019. The Director also expressed concern with event support and towns who are unable to send workers to events. It was then discussed to designate three events per town to reduce the burden. The Director will send out a draft schedule to be reviewed and agreed for the February meeting.

P. Bass asked if the Authority could investigate providing pharmaceutical take back at the HHW events. Members agreed with the idea and the Director will follow-up with what may be required in order to provide it as a service to the communities during the HHW events.

- b.) HRRRA Authority Meeting dates for 2020** - J. Heaton-Jones presented the 2020 HRRRA meeting dates with a request to change the December meeting from December 11<sup>th</sup> to December 4<sup>th</sup> and to set the meeting to be held at Brookfield Town Hall. Anyone wishing to attend the Danbury Chamber December Luncheon may do so on their own. **Motion** by S. Dunn, second by P. Bass to accept the 2020 Meeting dates with the December meeting being held on December 4<sup>th</sup> at Brookfield Town Hall. **The motion passed unanimously;** with 91 votes in favor
- c.) HRRRA 2020 Legislative Agenda** – J. Heaton-Jones presented two legislative items for the HRRRA to support in the 2020 session, the Bottle Bill and EPR for packaging. No other issues or items were raised by members. **Motion** by S. Dunn, second by H. Rosenthal to accept the 2020 proposed agenda items. **The motion passed unanimously;** with 91 votes in favor
- e.) CT DEEP & Zero Waste Presentation on PAYT** – K. Brown from Zero Waste presented a plan to implement a “Pay As You Throw” program in the HRRRA region. The presentation is attached to the minutes. It was well received by members with a desire to learn more about how it could work in the HRRRA region. J. Heaton-Jones shared that staff did conduct a SMART/PAYT study through a task force in 2012 and will share the summary.

#### **Adjournment**

**Motion** by H. Rosenthal, second by J. Urice, to adjourn the meeting at 11:53a.m. **The motion passed unanimously;** with 91 votes in favor

Respectfully submitted,  
Jennifer A. Heaton-Jones

HRRR Jul '19 - Jun 20 Budget

<b>Revenue</b>			
<b>GRANTS/DONATIONS</b>			
	OTHER GRANTS/DONATIONS	\$31,500	Billboard contest & Oak Ridge Contract Donation
Total GRANTS/DONATIONS		<b>\$31,500</b>	
<b>HAULER PERMITS</b>			
	HAULER PERMIT FEES	\$46,250	185 trucks @ \$250
	HAULER PERMIT LATE FEES	\$0	
	MUNICIPAL HAULER REGISTRATIONS	\$35,000	Municipal hauler registration
	PRE-PAID HAULER REGISTRATIONS	\$0	
	PREPAID MUNICIPAL REGISTRATIONS	\$0	
	PREPAID RECYCLING PERMIT FEES	\$0	
Total HAULER PERMITS		<b>\$81,250</b>	
<b>HHWDD REIMBURSEMENT</b>			
	HHW DANBURY AREA TOWNS	\$175,000	Municipal reimbursement for proportional share of 5 HHW events
Total HHWDD REIMBURSEMENT		<b>\$175,000</b>	
<b>INTEREST INCOME</b>			
		\$12,000	Dividends earned on Vanguard investments moved to checking
<b>PROGRAM SERVICES FEES</b>			
	MSW PROGRAM FEES	\$230,000	115,000 T @ \$2/T per contract
	RECYCLING PROGRAM FEES	\$45,000	9000 T @ \$5
Total PROGRAM SERVICES FEES		<b>\$275,000</b>	
Total Revenue		<b>\$574,750</b>	
<b>Expenditures</b>			
<b>CONTINGENCY</b>			
		\$20,000	For unbudgeted, unanticipated costs as approved by the full HRRR
<b>EDUCATION</b>			
	PUBLIC EDUCATION	\$35,000	Billboard contest, Public Education items and programs
	STAFF EDUCATION	\$4,500	Conferences and Trainings
Total EDUCATION		<b>\$39,500</b>	
<b>HHW EXPENSE</b>			
	HHWDD DANBURY AREA TOWNS	\$175,000	HHW costs - Pass through to be reimbursed by towns
	HHWDD REGIONAL FUND	\$65,000	HHW costs - not reimbursed by towns - food, adv, non-haz waste
Total HHW EXPENSE		<b>\$240,000</b>	
<b>Gain/Loss on Investments and Planned FB Use</b>			
	ERRORS & OMISSIONS	\$5,725	estimate from prior year
	GENERAL LIABILITY	\$1,400	\$1010 GL & \$200 Property for copy machine
	SURETY BOND	\$450	estimate from prior year
	WORKERS COMP	\$550	CIRMA
Total INSURANCE		<b>\$8,125</b>	
<b>MISCELLANEOUS</b>			
	MISC EXPENSE	\$2,500	Food for mtgs, awards, GDCC luncheons, periodicals, etc.
	PAYROLL PROCESSING SERVICE	\$800	Quickbooks annual payroll processing fees
	SERVICE FEES/MEMBERSHIPS	\$4,000	Membership in NERC, CRC, GDCC, PSI, NAMHHAetc.
Total MISCELLANEOUS		<b>\$7,300</b>	
<b>OFFICE EXPENSES</b>			
	RENT	\$16,200	\$1,350/mo by lease to BK
	COPY EXPENSE	\$3,500	Annual machine lease \$1700/yr + \$150/mo for ink, toner, maint etc
	SUPPLIES	\$3,800	Office supplies, postage, etc. software
Total OFFICE EXPENSES		<b>\$23,500</b>	
<b>PROFESSIONAL SERVICES</b>			
	AUDIT SERVICES	\$6,500	Per contract
	CONSULTING SERVICES	\$1,800	Website hosting and misc consulting needs
	LEGAL	\$20,000	Misc. legal matters
Total PROFESSIONAL SERVICES		<b>\$28,300</b>	
<b>REIMBURSEMENT FOR COLLECTED FEE</b>			
	MUNICIPAL HAULER REG REIMBURSEM	\$0	To be retained by HRRR for HHW
Total REIMBURSEMENT FOR COLLECTED FEE		<b>\$0</b>	
<b>STAFFING</b>			
	Life/Short/Term Insurance	\$8,700	Full time employee benefit per Personnel Policy
	HEALTH INSURANCE	\$7,332	Health Insurance for Director
		\$8,000	In ltu of medical insurance - Admin
	HSA CONTRIBUTION	\$3,450	Health ins. for Director
		<b>\$27,482</b>	
	PAYROLL TAXES		
	CT PR TAXES	\$630	1.9% of first \$15k of salary + assessment of \$25.50/ee
	FED PR TAX	\$11,804	Employer share of FICA & Medicare tax
Total PAYROLL TAXES		<b>\$12,443</b>	
	PENSION	\$11,432	7.5% of salaries per HRRR Personnel Policies
	SALARIES		
	DIRECTOR'S SALARY	\$104,615	2.5% increase / 40 hrs week
	ASSISTANT DIRECTOR'S SALARY	\$47,804	2.5% increase / 35 hrs week
Total SALARIES		<b>\$152,419</b>	
Total STAFFING		<b>\$203,776</b>	
<b>TRAVEL/MILEAGE REIMBURSEMENT</b>			
		\$4,249	Mileage @ IRS rate \$.585/mi (to towns, schools, DEEP, LOB)
Total Expenditures		<b>\$574,750</b>	
Net Revenue in Excess of Expenditures		\$0	
Appropriated from Fund Balance			
Net Revenue + Appropriations in Excess of Expenditures		<b>\$0</b>	

**ATTACHMENT C1**

APPROVED 19-20 FY BUDGET

Jan 31, 20

**ASSETS****Current Assets****Checking/Savings****UNION SAVINGS BANK**

296,255.08

**STIF**

16,250.12

**VANGUARD****VANGUARD SHRT TRM INV GR VFSUX**

358,041.52

**VANGUARD TOTAL BOND MARKET VBTL**

180,293.08

**Total VANGUARD**

538,334.60

**Total Checking/Savings**

850,839.80

**Accounts Receivable****\*ACCOUNTS RECEIVABLE**

68,355.17

**Total Accounts Receivable**

68,355.17

**Other Current Assets****UNDEPOSITED FUNDS**

-25,873.46

**Total Other Current Assets**

-25,873.46

**Total Current Assets**

893,321.51

**TOTAL ASSETS****893,321.51****LIABILITIES & EQUITY****Liabilities****Current Liabilities****Accounts Payable****\*ACCOUNTS PAYABLE**

1,313.51

**Total Accounts Payable**

1,313.51

**Other Current Liabilities****PAYROLL LIABILITIES****CT PR TAXES PAYABLE****CIT**

-90.52

**CT SUI**

57.89

**Total CT PR TAXES PAYABLE**

-32.63

**FED PR TAXES PAYABLE****FICA**

-152.26

**FIT**

-16.00

**FUTA**

42.00

**MEDICARE TAX**

-35.62

**Total FED PR TAXES PAYABLE**

-161.88

**SEP LIABILITY**

653.84

**PAYROLL LIABILITIES - Other**

2,812.40

**Total PAYROLL LIABILITIES**

3,271.73

**Total Other Current Liabilities**

3,271.73

**Total Current Liabilities**

4,585.24

**Total Liabilities**

4,585.24

**Equity****RETAINED EARNINGS**

774,525.72

**Net Income**

114,210.55

**Total Equity**

888,736.27

**TOTAL LIABILITIES & EQUITY****893,321.51****ATTACHMENT C2**

Housatonic Resources Recovery Authority  
Profit & Loss Budget vs. Actual  
July 2019 through January 2020

	Jul '19 - Jan 20	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
GRANTS/DONATIONS				
OTHER GRANTS/DONATIONS	400.00			
GRANTS/DONATIONS - Other	25,500.00	25,500.00	0.00	100.0%
Total GRANTS/DONATIONS	25,900.00	25,500.00	400.00	101.57%
HAULER PERMITS				
REGISTRATION/PERMIT PAYPAL FEE	0.85			
CURRENT HAULER PERMITS	52,750.00	46,250.00	6,500.00	114.05%
MUNICIPAL HAULER REGISTRATIONS	35,950.00	35,000.00	950.00	102.71%
PREPAID MUNICIPAL REGISTRATIONS	0.00	0.00	0.00	0.0%
Total HAULER PERMITS	88,700.85	81,250.00	7,450.85	109.17%
HHWDD REIMBURSEMENT				
HHW PARTICIPATING TOWNS	101,356.54	140,000.00	-38,643.46	72.4%
HHWDD REIMBURSEMENT - Other	220.00			
Total HHWDD REIMBURSEMENT	101,576.54	140,000.00	-38,423.46	72.56%
INTEREST INCOME	9,127.41	0.00	9,127.41	100.0%
MISC INCOME	32.01	0.00	32.01	100.0%
PROGRAM SERVICES FEES				
MSW PROGRAM FEES	159,211.77	134,050.00	25,161.77	118.77%
RECYCLING PROGRAM FEES	23,923.50	25,500.00	-1,576.50	93.82%
Total PROGRAM SERVICES FEES	183,135.27	159,550.00	23,585.27	114.78%
Total Income	408,472.08	406,300.00	2,172.08	100.54%
Gross Profit				
Expense				
CONTINGENCY	3,786.00	20,000.00	-16,214.00	18.93%
EDUCATION				
PUBLIC EDUCATION	7,297.30	14,500.00	-7,202.70	50.33%
RECYCLING EDUCATOR	0.00	0.00	0.00	0.0%
STAFF EDUCATION	3,814.51	2,000.00	1,814.51	190.73%
Total EDUCATION	11,111.81	16,500.00	-5,388.19	67.34%
HHW EXPENSE				
HHW TOWN SHARE	107,782.65	140,000.00	-32,217.35	76.99%
HHW HRRRA SHARE	48,553.92	52,000.00	-3,446.08	93.37%
HHWDD DANBURY AREA TOWNS	0.00	0.00	0.00	0.0%
Total HHW EXPENSE	156,336.57	192,000.00	-35,663.43	81.43%
INSURANCE				
ERRORS & OMISSIONS	0.00	5,725.00	-5,725.00	0.0%
GENERAL LIABILITY	0.00	1,400.00	-1,400.00	0.0%
SURETY BOND	391.00	450.00	-59.00	86.89%
WORKERS COMP	0.00	550.00	-550.00	0.0%
Total INSURANCE	391.00	8,125.00	-7,734.00	4.81%
MISCELLANEOUS				
MISC EXPENSE	2,157.57	2,300.00	-142.43	93.81%
PAYROLL PROCESSING SERVICE	694.48	725.00	-30.52	95.79%
SERVICE FEES/MEMBERSHIPS	1,644.19	4,000.00	-2,355.81	41.11%
Total MISCELLANEOUS	4,496.24	7,025.00	-2,528.76	64.0%
OFFICE EXPENSES				
COPY EXPENSE	1,782.08	2,441.62	-659.54	72.99%
PHONE/FAX/INTERNET/COPY	0.00	0.00	0.00	0.0%

ATTACHMENT C3

Housatonic Resources Recovery Authority  
Profit & Loss Budget vs. Actual  
July 2019 through January 2020

	Jul '19 - Jan 20	Budget	\$ Over Budget	% of Budget
RENT	10,800.00	9,450.00	1,350.00	114.29%
SUPPLIES	1,058.59	2,216.90	-1,158.31	47.75%
Total OFFICE EXPENSES	13,640.67	14,108.52	-467.85	96.68%
PROFESSIONAL SERVICES				
AUDIT SERVICES	6,500.00	6,500.00	0.00	100.0%
CONSULTING SERVICES	0.00	900.00	-900.00	0.0%
LEGAL SERVICES	1,569.50	17,500.00	-15,930.50	8.97%
Total PROFESSIONAL SERVICES	8,069.50	24,900.00	-16,830.50	32.41%
REIMBURSEMENT FOR COLLECTED FEE				
MUNICIPAL HAULER REG REIMBURSEM	0.00	0.00	0.00	0.0%
Total REIMBURSEMENT FOR COLLECTED FEE	0.00	0.00	0.00	0.0%
STAFFING				
DISABILITY INSURANCE	3,941.50	8,700.00	-4,758.50	45.31%
HEALTH INSURANCE	3,839.15	3,964.25	-125.10	96.84%
HSA CONTRIBUTION	591.66	591.66	0.00	100.0%
IN LIEU OF MEDICAL INSURANCE	2,999.97	4,666.69	-1,666.72	64.29%
PAYROLL TAXES				
CT PR TAXES	197.46	367.50	-170.04	53.73%
FED PR TAX	6,311.32	6,885.62	-574.30	91.66%
Total PAYROLL TAXES	6,508.78	7,253.12	-744.34	89.74%
PENSION	5,921.39	8,574.00	-2,652.61	69.06%
SALARIES				
DIRECTOR SALARY	61,025.44	61,025.44	0.00	100.0%
OTHER SALARIES	17,926.47	27,885.69	-9,959.22	64.29%
SALARIES - Other	0.00	0.00	0.00	0.0%
Total SALARIES	78,951.91	88,911.13	-9,959.22	88.8%
Total STAFFING	102,754.36	122,660.85	-19,906.49	83.77%
TRAVEL/MILEAGE REIMBURSEMENT	1,284.23	2,478.56	-1,194.33	51.81%
Total Expense	301,870.38	407,797.93	-105,927.55	74.03%
Net Ordinary Income	106,601.70	-1,497.93	108,099.63	-7,116.6%
Other Income/Expense				
Other Income				
DIVIDENDS	0.00	12,000.00	-12,000.00	0.0%
INVESTMENT GAIN	12,827.81	0.00	12,827.81	100.0%
Total Other Income	12,827.81	12,000.00	827.81	106.9%
Other Expense				
INVESTMENT LOSS	5,218.96	0.00	5,218.96	100.0%
Total Other Expense	5,218.96	0.00	5,218.96	100.0%
Net Other Income	7,608.85	12,000.00	-4,391.15	63.41%
Net Income	114,210.55	10,502.07	103,708.48	1,087.51%

ATTACHMENT C4





# MARKET REALITIES

To help counter growing skepticism about the value of recycling, two groups in the Northeast have compiled a list of the wide variety of regional end users consuming curbside materials.

*By Lynn Rubinstein*

**M**ore and more, members of the public and mainstream news reporters are making the case that there is no reason to recycle—because everything collected is supposedly being thrown out.

While it's certainly true recycling market foundations have shifted in the wake of China's National Sword, the fact remains that plenty of end users remain hungry for material coming out of municipal programs. And very often, these buyers are located close to where recyclables are generated.

To bring some data points to this conversation, the Northeast Recycling Council (NERC) and Northeast Waste Management Officials' Association (NEWMOA) together recently undertook research into end-use options for recyclables in the 11 states covered by our organizations (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont).

The Regional Recycling Market Development Committee, which was formed by NERC and NEWMOA in 2018, set out to create a resource that catalogues regional end markets for materials commonly collected in curbside programs: plastic, metal and glass food and

beverage containers, and paper.

Outlining these regional end markets right now is critical. As residential recycling programs encounter new economic realities, some cities are considering dropping materials from collection lists. Such action could have pronounced long-term consequences. Without a predictable source of material from residential recycling programs, processors and end users will have far less ability to expand or innovate. Therefore, the industry needs to do all it can to identify existing markets, making clear to elected officials and others that end uses continue to exist.

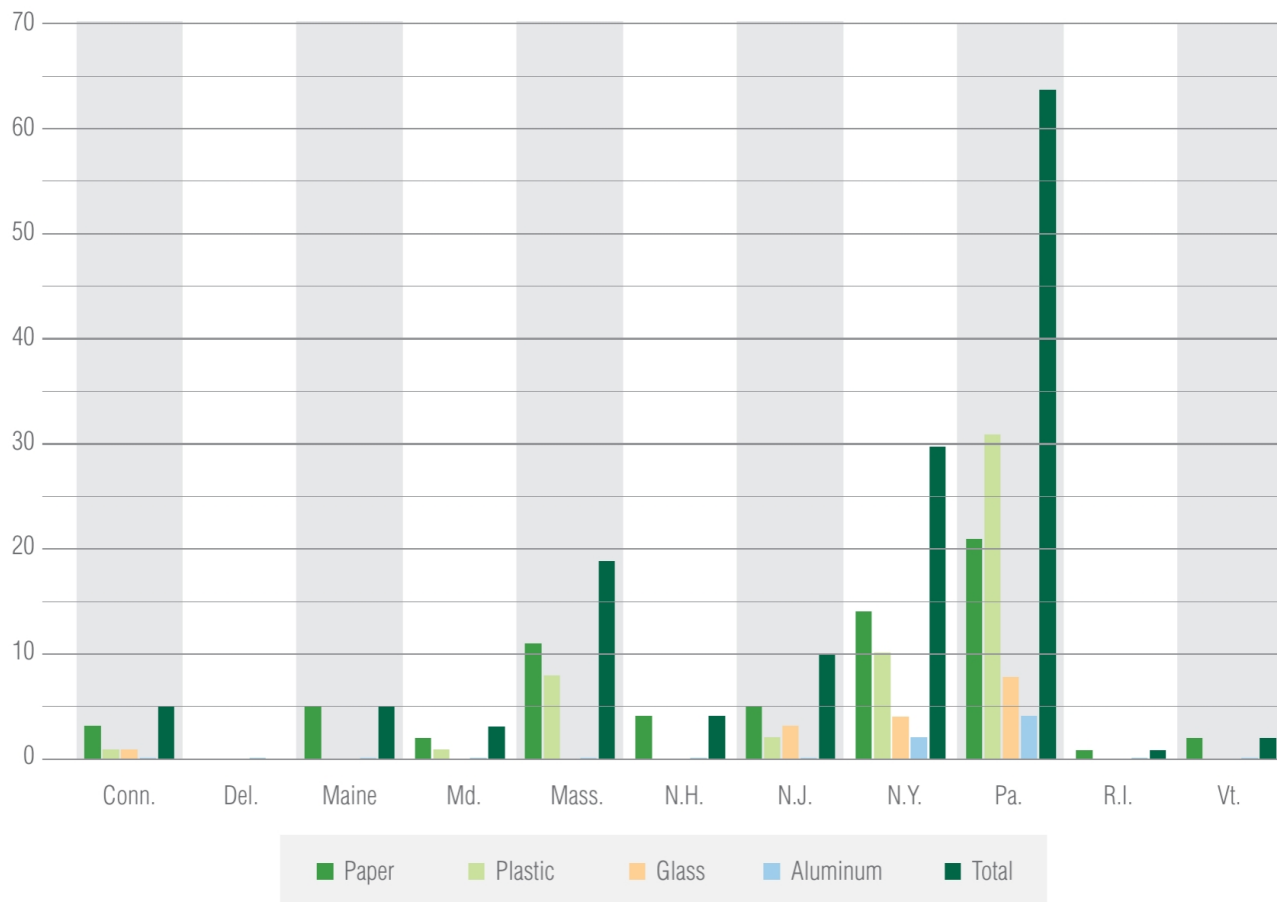
## ***SOME SURPRISING TAKEAWAYS***

Drawing on a number of resources (including Google), the NERC and NEWMOA market committee compiled a list of companies that either process materials coming out of a MRF or use processed materials as a feedstock. Listings were verified through conversations with the individual facilities and companies. The findings are laid out on the chart on the opposite page and the table on page 38.

We made several interesting discoveries along the way.

For one, there is often resistance among material consumers to publicly acknowledge using recycled feedstock. Our research found

## NUMBER OF COMPANIES CONSUMING CURBSIDE RECYCLABLES IN NORTHEAST STATES



many more companies are processing and using post-consumer recycled materials than is obvious from a look at their websites. In fact, some companies did not want to be included on our list, even though they are eligible. It's clear that for some manufacturers and end users, use of recycled content makes sense from an efficiency or cost standpoint, but it's not something they want to promote.

Additionally, we found a wider range of product categories are integrating recycled content than one might think. The end users in the Northeast go well beyond producers of plastic packaging, recycled-content paper and plastic decking.

Take, for instance, Applegate Insulation. This Michigan-based home insulation provider also has a presence in Pennsylvania. While insulation is a well-known downstream market for recovered glass, Applegate also uses lower value fiber material, buying direct from MRFs.

### Polymer Recovery Systems, Inc.

#### Float/Sink Tank

For continuous separation of buoyant plastics from non-buoyant plastics. Suitable for non-plastic material as well. Unique "Z-Flow" material flow pattern allows for 25 feet of surface travel – this allows longer material residence times and superior separation in a compact unit. Powered by variable speed motors to allow precise control of material flow

Optional equipment includes:

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## MARKET REALITIES

Paper Products	Companies
Animal bedding	2
Binders	1
Boxes	1
Cartons, packaging and displays	1
Cellulose insulation	1
Containerboard	1
Cores and tubes	7
Corrugated and paperboard	9
Display and packaging	1
Dry felt roofing underlayment, facer roofing insulation and pallet sheets	1
Egg trays	1
Fiber drums	1
Folding cartons	1
Food service packaging	1
Gypsum board	1
Insulation	1
Molded pulp products	2
Natural and white Kraft, OCC, toweling, tissue and specialty papers	2
Paper	6
Paper and pulp	1
Paper towels, napkins, and tissue	2
Paperboard	15
Paperboard, folding cartons, foodservice packaging	1
Rigid paper box	1
Rigid paper cans	1
Signage	1
Tissue	1
Tissue and towel	2

Plastic Products	Companies
Adirondack chairs, benches, tables and commercial site furnishings	1
Battery cases	1
Binders	1
Bottles	2
Compounds and resins	2
Concrete	1
Containers	1
Decorative products	1
Drainage management	2
Drainage pipes	7
Fencing	1
Flake	6
Flower watering cans	1
Food and beverage containers	2
Manual grade strapping	1
Milk jugs, agricultural pots, kitty litter containers, fencing	1
Nursery supplies	1
Paint containers	1
Pellets	3
Pellets and flake	6
Pens	1
Plastic bottles	2
Plastic lumber	1
Promotional Products	1
Recycling containers	2
Thermoform food packaging	2
Toothbrushes, razors, table and kitchenware	1

Note: The tables show the number of companies in Northeast states making products from recycled materials.

Another example is HydroBlox, which buys bales of plastics Nos. 3-7 to manufacture systems to manage water drainage at both homes and commercial properties. Representatives of the company, which manufactures near Pittsburgh, told us they actually struggle to find enough recycled supply to fill their demand.

Highlighting such products can help engage the public, showing that collected material really is going to a positive place.

Another important takeaway is that despite our research, important gaps remain when it comes to identifying end markets, especially for steel. We were unable to get

anyone in that sector to speak to us. One company specifically said it did not want to be included; others did not return multiple phone and email inquiries. There is a similar lack of information about aluminum recycling. Aluminum companies in the Northeast using recycled content were identified in online research, but we could not verify the information.

Finally, there are more companies processing and using plastic film than we realized, but we did not include them on the list because this material is outside the scope of the project – in the Northeast, residential recycling programs rarely collect plastic film.

### NEXT STEPS FORWARD

We continue to seek companies to add to the list, and we've been encouraged by the industry's reaction since we initially posted our findings in October 2019. NERC has received word that some companies on the list immediately saw an increase in business inquiries. Others are letting us know that they are developing facilities in our region and look forward to being included in the coming years.

In conjunction with the research, NERC recently adopted its first post-consumer recycled content policy. The policy notes that NERC believes that beyond voluntary

initiatives, mandatory actions based on science and economics are needed to drive an increased use of post-consumer recycled material.

In support of its mission to minimize waste, conserve natural resources and advance a sustainable economy, NERC has adopted this policy to encourage legislative and procurement requirements for minimum post-consumer content. NERC believes these requirements generally should apply to all consumer goods produced from materials including, but not limited to: aluminum, steel, glass, paper and plastics. There may be circumstances in which this is not the preferred approach, but this would be a circumstance specific to a particular commodity and product.

While the new recycled content policy is a small step, it highlights NERC's awareness of the need to grow attention about the use of secondary feedstock while working to support both the quality and quantity of what is recycled.

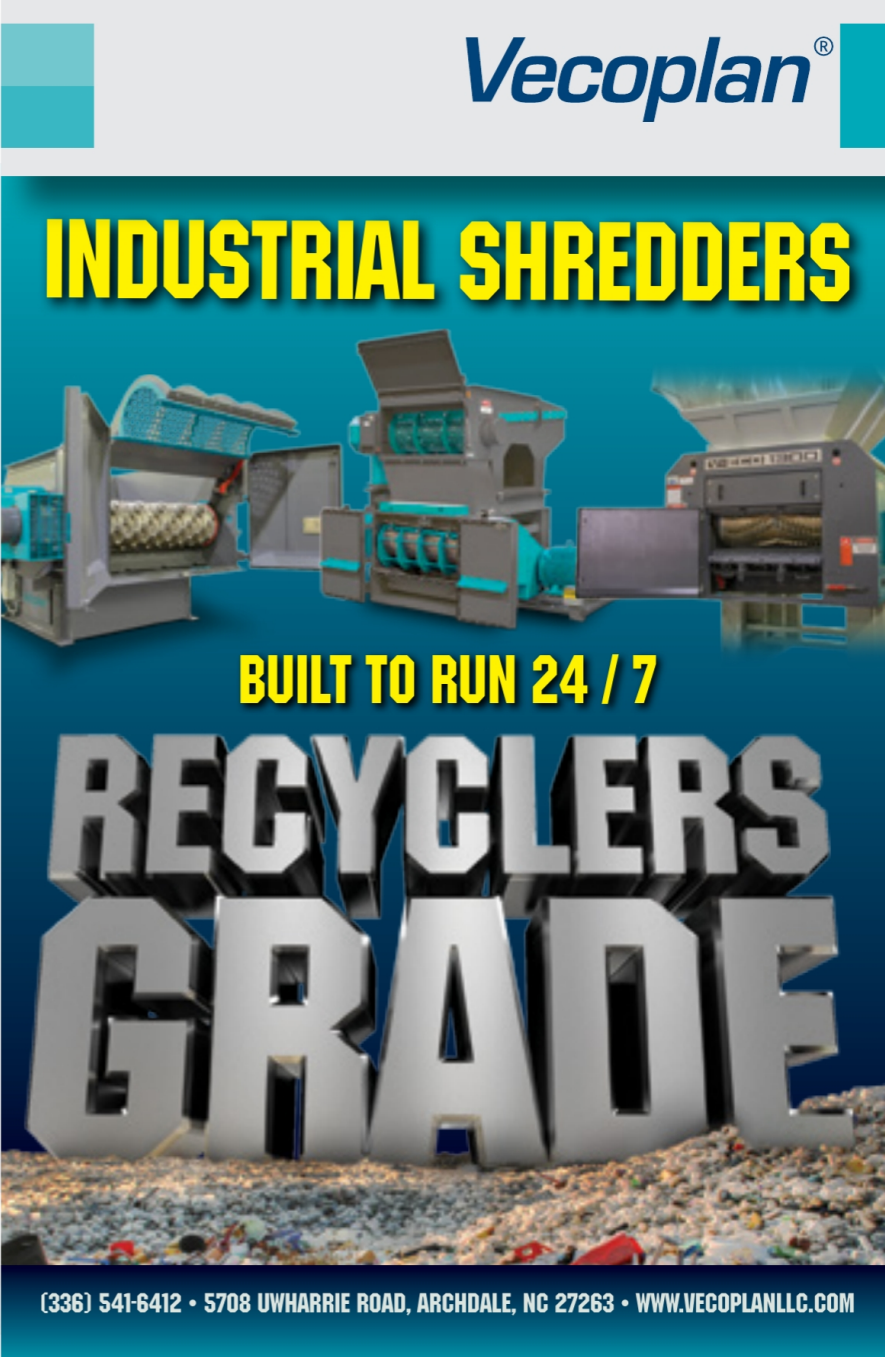
Finally, it's important also to note that NERC has been actively involved in initiatives to increase the use of secondary feedstock throughout our 33-year history. These efforts have included:

- The Newspaper Publishers Agreement – a groundbreaking negotiation that brought the Northeast newspaper industry together to commit to using a set minimum amount of post-consumer recycled content.
- The Yellow Page Publishers Association's commitment to report on the status of recycled content purchasing efforts, design for recyclability, source reduction and other related environmental issues.
- The Direct Marketing Association commitment to reduce waste associated with direct mail by increasing the use of recycled materials, as well as source reduction and design for recyclability.
- Working with hotels in New England and businesses in Vermont to increase the use of products with recycled content.
- Creation of a recycling market database in New York state.
- The State Electronics Challenge, which works with government entities, schools, colleges and universities and nonprofits around the U.S. to purchase electronic products with recycled content.
- Developing model procurement specifications for paper, toner cartridges and office supplies.
- EPPnet, a unique national listserv for conversation about environmentally preferable purchasing.

- A glass recycling committee to help expand end markets for glass in the region.
- Government Demand Champions, a pilot funded by the Association of Plastic Recyclers to increase the use of plastic drainage pipes with post-consumer recycled content.

NERC continues to examine ways to identify and publicize markets for recyclables. Let us know of any we may have missed. <sup>RR</sup>

*Lynn Rubinstein is the executive director of the Northeast Recycling Council (NERC). She can be contacted at [lynn@nerc.org](mailto:lynn@nerc.org).*

The advertisement features the Vecoplan logo at the top right. Below it, the text "INDUSTRIAL SHREDDERS" is written in large, bold, yellow capital letters. In the center, there are three images of different industrial shredder models. Below the images, the text "BUILT TO RUN 24 / 7" is written in bold, yellow capital letters. At the bottom, the words "RECYCLERS GRADE" are written in large, bold, grey 3D capital letters. The background of the lower half of the ad is a blue sky with a pile of colorful plastic debris at the bottom. At the very bottom, a black banner contains the contact information: "(336) 541-6412 • 5708 UWHARRIE ROAD, ARCHDALE, NC 27263 • WWW.VECOPANLLC.COM".

**Vecoplan®**

**INDUSTRIAL SHREDDERS**

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## Recycled paper prices stay low

by RecyclingMarkets.net Staff

Prices for recovered OCC and fiber bales are still in the dumps, but the value of natural HDPE bales has remained at record highs.

The following prices reflect values seen on the Secondary Materials Pricing Index on RecyclingMarkets.net in mid-January 2020.

The national average for **corrugated containers (PS 11)** remains around \$25 per ton. The OCC grade was trading for about \$70 one year ago.

**Sorted residential papers (PS 56)** are also seeing unchanged values month-to-month, still trading at around \$10 per ton.

**Mixed paper (PS 54)** continues to trade at a national average negative \$2 per ton.

The national average price for sorted, baled **aluminum cans** remained stable month-over-month, trading at 51.19 cents per pound in mid-January. This compares with 60.19 cents per pound this time last year.

Sorted, baled **steel cans** moved up, reaching a national average \$103 per ton, compared with an average \$100 per ton in December and \$170 per ton one year ago.

The national average price of **PET beverage bottles and jars** moved up slightly again, from 10.29 cents per pound in mid-December to 10.65 cents per pound in January. Nonetheless, this time last year, PET was trading much higher, at an average 15.11 cents per pound.

The price of **natural high-density polyethylene (HDPE)** from curbside collection programs saw a slight increase, continuing a trend of record highs. The national average price in mid-January was 59.47 cents per pound, compared to 58.25 cents in December. In some regions, the grade has been trading as high as 63.50 cents per pound. One year ago, the national average for this grade was 38.88 cents per pound.

Meanwhile, the national average price of **color HDPE** dropped 15 percent from December to January, coming in at 12.53 cents per pound, compared with 14.75 cents per pound in December. One year ago, this grade was trading at 16.41 cents per pound.

The national average price of **polypropylene** dropped from 7.06 cents per pound in December to 5.81 cents per pound. One year ago, this grade was trading at 12.50 cents per pound.

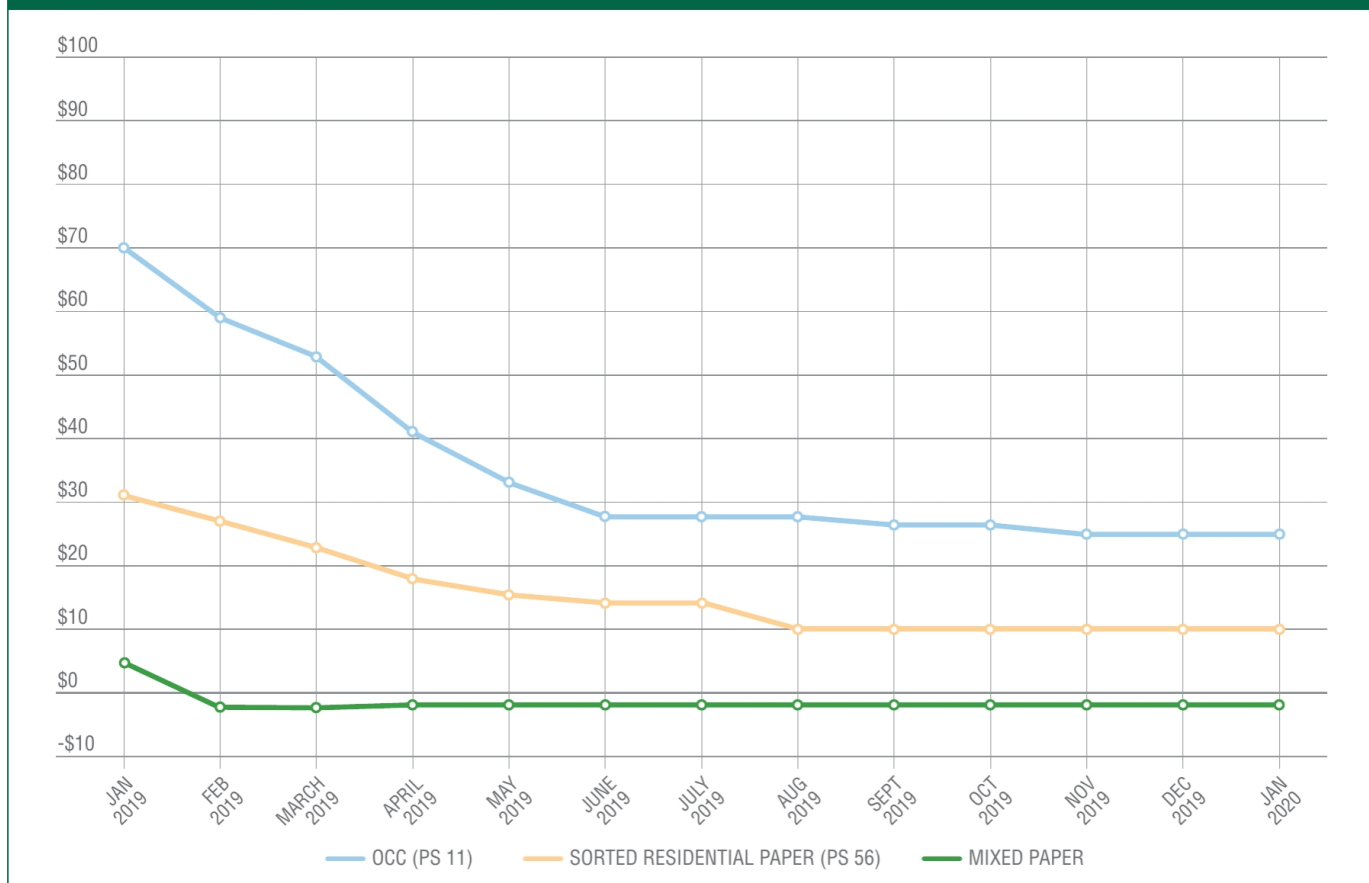
The national average price of **Grade A film** dropped marginally month-over-month, from 8.69 cents per pound to 8.44 cents per pound. The grade traded at 8.81 cents per pound one year ago.

**Grade B film** remains unchanged at 4.56 cents per pound, and **Grade C film** is still a nominal 1.38 cents per pound. ■

*These prices are as reported on the Secondary Materials Pricing (SMP) Index. 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](mailto:cmb@recyclingmarkets.net) or 330-956-8911.*

### RECOVERED FIBER PRICES OVER PAST 12 MONTHS



Source: RecyclingMarkets.net / Resource Recycling



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## Report on Blended Commodity Values in the Northeast

Period covered October 1 – December 31, 2019



## Table of Contents

Background .....	1
Survey Questions & Results .....	2
Average Commodity Value per Ton of Marketed Materials .....	3
Residual Processing Costs .....	4

### Background

The Northeast Recycling Council (NERC) supports recycling market development and opportunities for improvements in its 11-state region: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

In 2018, in partnership with the Northeast Waste Management Officials' Association (NEWMOA), we formed a *Regional Recycling Markets Development Committee*. The Committee determined that having information about the value of commodities processed by the region's Materials Recovery Facilities (MRFs)<sup>1</sup> would be extremely helpful for assessing regional market trends and would serve as an educational tool for promoting improved residential recycling and participation. The results have been invaluable to recyclers, MRFs, and also municipalities and state agencies.

This is the third report published. The first report covered the period April – June, 2019. The survey is conducted quarterly.

Fourteen (14) publically-owned or operated MRFs, and one privately-owned MRF, in 10 states volunteered to be surveyed for the period covering October – December, 2019.<sup>2</sup> Among the 15 respondents are single stream, dual stream, and source separated MRFs. This is an addition of one MRF, and the first privately owned MRF, responding to the survey since the previous report.

*At no time will any individual company information be shared with anyone outside of NERC staff. No participating facilities will be identified and no state-specific data will be released.*

We would like to recognize and thank Max Babits, RRS for his technical assistance.

---

<sup>1</sup> MRFs are a facility that receives, separates and prepares recyclable materials from the public for marketing to processors and end-user manufacturers.

<sup>2</sup> There are no MRFs in New Hampshire.

## Survey Questions & Results

The survey asked for the percentage of a ton represented by each of the following commodities for calendar year 2019, as well as the average value received/paid for each of these commodities during the period October – December 2019. A new commodity category was added for this survey: All other Paper (excluding grades 11, 52 & 54).

UBC (aluminum cans)
Steel Cans
PET (plastic #1)
HDPE Natural (plastic #2)
HDPE Colored (plastic #2)
Polypropylene (plastic #5)
Plastics #'s 3-7
Bulky Rigid Plastics
OCC Grade #11 (corrugated cardboard)
Mixed Paper Grade #54
Aseptic and Gable-top Cartons (Grade #52)
All other Paper (excluding grades 11, 52 & 54)
Clear Glass Containers
Green Glass Containers
Brown Glass Containers
3 Mix Glass Containers
Residue



## Weighted Percentage of Outbound Tons Marketed per Commodity in Calendar Year 2019

UBC (aluminum cans)	0.78
Steel Cans	2.53
PET (plastic #1)	3.35
HDPE Natural (plastic #2)	1.05
HDPE Colored (plastic #2)	1.06
Polypropylene (plastic #5)	0.12
Plastics #'s 3-7	1.28
Bulky Rigid Plastics	0.64
OCC Grade #11 (corrugated cardboard)	25.07
Mixed Paper Grade #54	31.60
Aseptic and Gable-top Cartons (Grade #52)	0.04
All other Paper (excluding grades 11, 52 & 54)	4.09
Glass Containers <sup>3</sup>	14.60
Residue	13.77

### Average Commodity Value per Ton of Marketed Materials

The 15 MRFs were asked to provide the average value of each commodity for the period October - December 2019. These values were then combined into a weighted average to reflect the blended value per ton for recyclables marketed in the region.

**Average commodity value per ton *with* the expense of handling residuals: \$34.92**

**Average commodity value per ton *without* residuals: \$42.41**

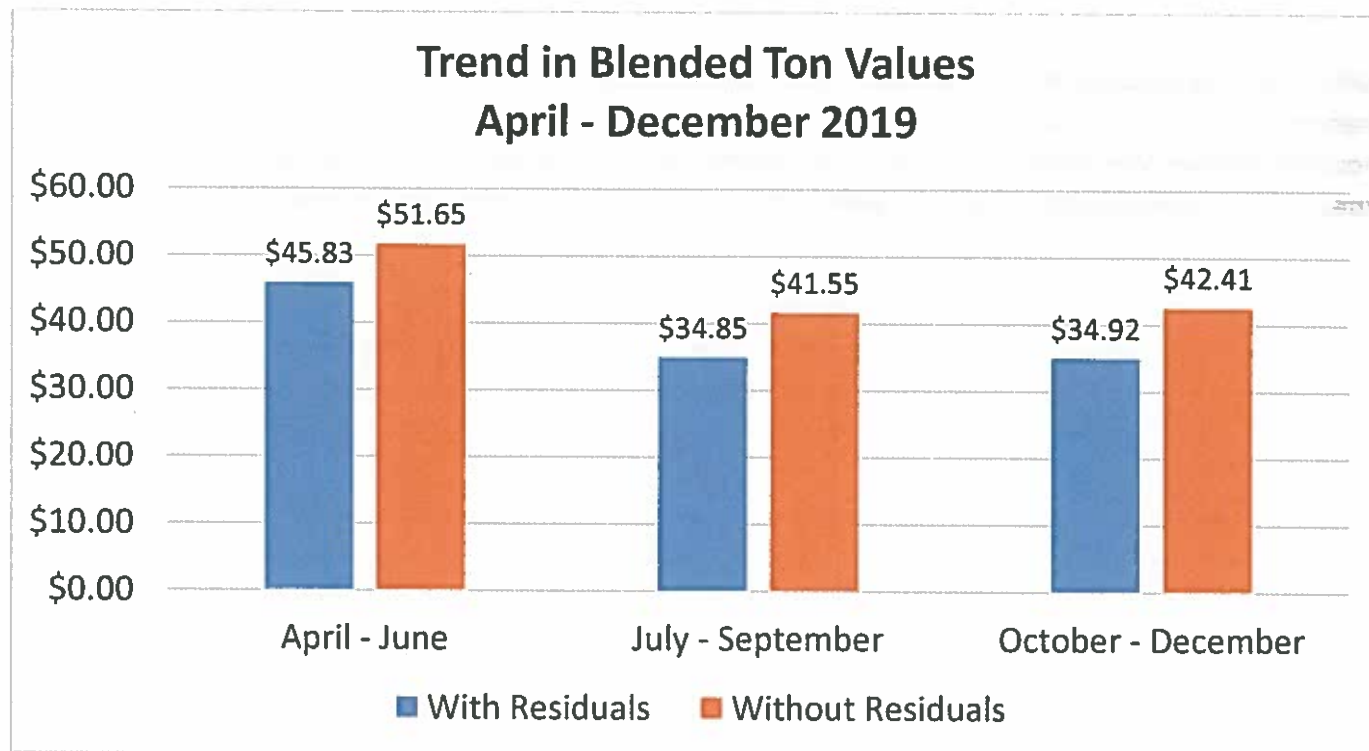
These figures are only slightly changed from the previous quarter (July – September, 2019)

**Change in average commodity value per ton *with* residuals from the previous quarter + .02%**

**Change in average commodity value per ton *without* residuals: + 2.07%**

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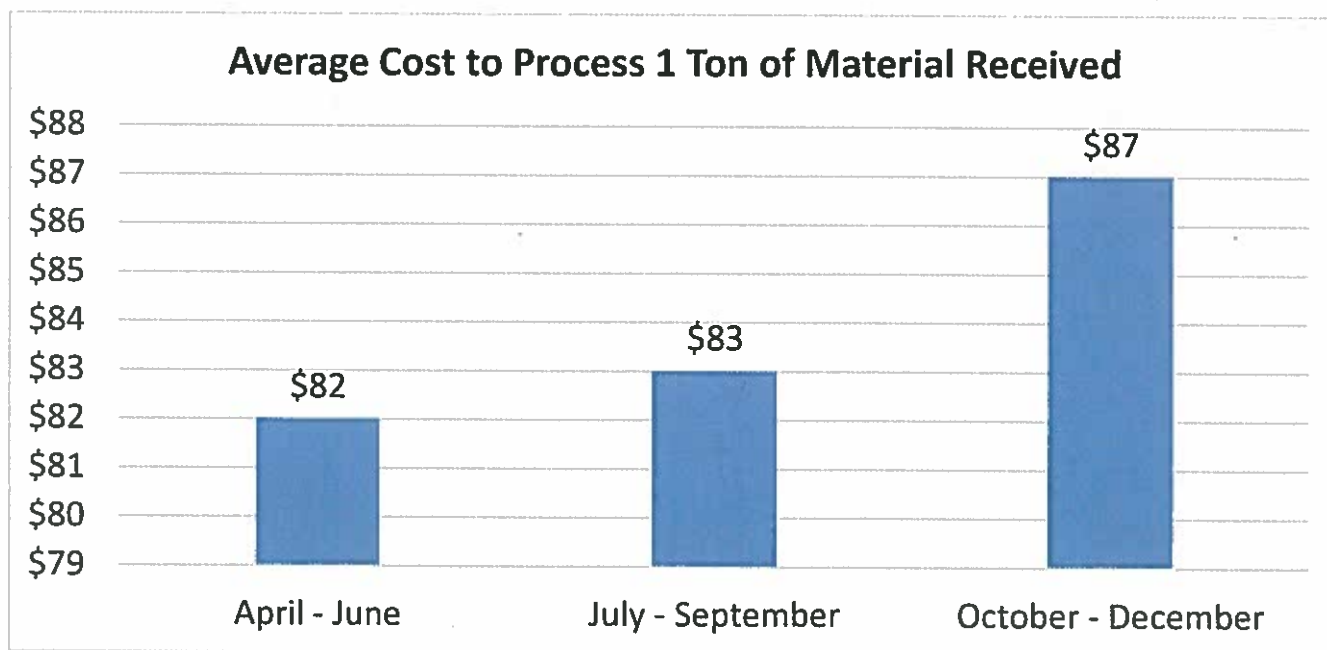
<sup>3</sup> Responses were received for clear, green, brown and 3-mix. The answers were blended to provide a single glass value, thus avoiding the over-counting in previous reports.



#### Residual Processing Costs

The MRFs were also asked about processing costs<sup>4</sup> for the period October – December 2019.

The average processing cost per ton: \$87/ton. This represents an increase of 5% over the previous period.



<sup>4</sup> The cost to sort and prepare the commodities for sale.



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Product from Non-  
Glass Debris**

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for a Small Scale  
Price**

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Reduces waste  
Provides cost effective remedy  
for environmentally conscious  
communities*

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- The GP05L System can process 2,000 lbs/per hour or more and accepts all types of glass up to one gallon containers
- The GP-05L System integrates with our Andela Metering Surge Hopper, Andela Glass Pulverizer Screening unit, Andela Conveyors and Electrical Controls.
- Design features access doors with replaceable chromium carbide liners and hammers for easy maintenance and service
- Also available as a single unit (See Equipment page)

- **Quiet Operation**
- **Simple to Operate & Maintain**
- **Easy Installation**
- **Reasonably Priced**
- **Single Frame Construction**
- **Generates Glass Product with No Sharp Edges**
- **Abrasion Resistant Materials on All Wear Surfaces**

**ATTACHMENT E1**



**ANDELA GLASS PULVERIZER SYSTEM**  
**MODEL GP-05L**  
**(1 +tons/hr)**

**MACHINE SPECIFICATIONS**

**Dimensions**

Overall Length ..... Approx. 12 ft  
Overall Width ..... Approx. 6 ft  
Overall Height ..... Adjustable

**Pulverizer**

Infeed Hopper Opening ..... 23" x 23"  
Machine Input Opening ..... 12" x 12"  
Barrel Diameter and Length ..... 16" x 34"  
Barrel Liner ..... Chromium Carbide  
Motor Size ..... 7.5 hp  
Solid Steel Shaft Diameter ..... 2"  
Number of Hammers ..... 28  
Hammer Type ..... Flailing Arm/Hardened Steel  
Bearing Size ..... 2"  
Seal Protection..... 2 Seals At Each Shaft Bearing

**Trommel**

Screen #1 ..... 24" OD x 2' long, 3/16" screen opening or to specification  
Screen #2 ..... 24" OD x 2' long, 7/16" screen opening or to specification  
..... Produces 1/8" minus glass sand, 1/8"-3/8" glass gravel and 3/8" plus trash  
Screen Barrel Diameter and Length ..... 24" x 6'  
Screen Type ..... Stainless Steel Woven Wire  
Rotating Brushes ..... 7" diameter  
Motor Size ..... 1 hp

**Safety Features**

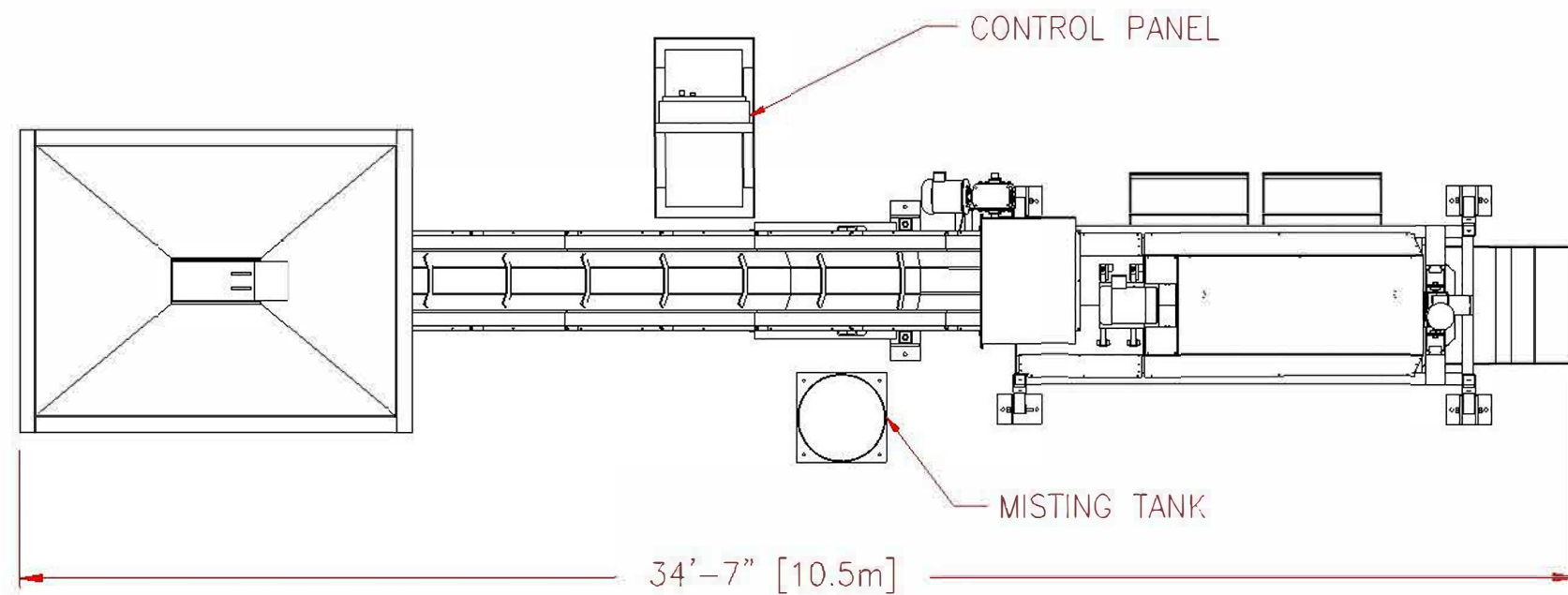
Protective Guards ..... Cover Input Hopper, Drive Unit and Bearings  
Maintenance Features ..... Central lubrication Block, External Mount

**Electrical**

Motor Voltage ..... 230/460 VAC, 60 HZ, 3 phase  
(or to customer specifications)

The manufacturer reserves the right to change designs  
and specifications without notice.

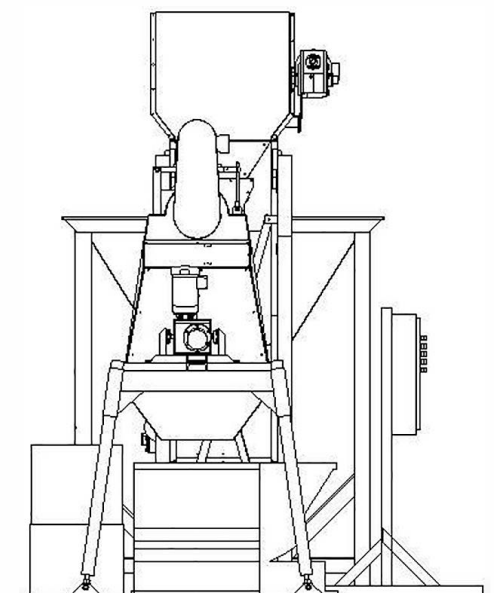
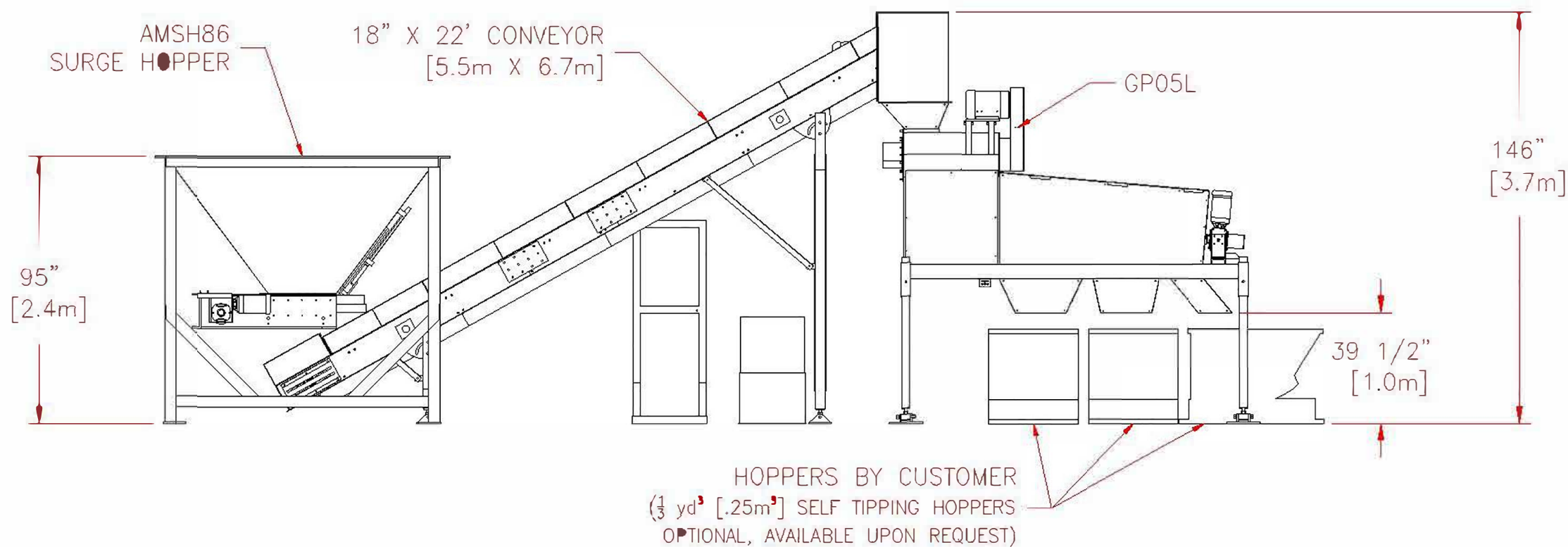
**ATTACHMENT E2**



ITEM	DESCRIPTION	MOTOR QTY.	MOTOR SIZE		SPECIAL CONTROLS
1	SURGE HOPPER	1	1.5 HP	1.12 Kw	N/A
2	CONVEYOR	1	2 HP	1.50 Kw	N/A
3	PULVERIZER	1	7.5 HP	5.59 Kw	N/A
4	TROMMEL MOTOR	1	1 HP	0.75 Kw	N/A
5	MISTING SYSTEM	1	1/12 HP	0.05 Kw	SUBMERSIBLE PUMP

NOTES:

- 1) SPECIFY ELECTRICAL REQUIREMENTS:  
 PHASE : \_\_\_\_\_ INITIALS: \_\_\_\_\_  
 VOLTAGE : \_\_\_\_\_ INITIALS: \_\_\_\_\_  
 FREQUENCY : \_\_\_\_\_ Hz INITIALS: \_\_\_\_\_
- 1) MISTING SYSTEM MOTOR IS SINGLE PHASE.
- 2) COLOR: RAL-5015 BLUE WITH SAFETY YELLOW GUARDS.
- 3) ALL DIMENSIONS ARE REFERENCE DIMENSIONS AND MAY VARY PER CUSTOMERS SPECIFICATIONS.
- 4) CONTROL PANEL AND MISTING SYSTEM BARREL LOCATIONS ARE TO BE DETERMINED BY CUSTOMER.
- 5) SURGE HOPPER CAPACITY = 3 YD<sup>3</sup>,  
 CAPACITY WITH EXTENSION = 6 YD<sup>3</sup>.



ATTACHMENT E3



493 State Route 28  
Richfield Springs, NY 13439

tel: 315-858-0055  
fax: 315-858-2669

DRAWN  
V. BASTIEN  
DATE  
7/30/14  
CHECKED  
...  
DATE  
...  
SCALE  
1:48

ANDELA SYSTEM LAYOUT

GP-05L SYSTEM

REVISION	DATE
1	VTB 10/28/14

FILE NO

SYS-15

SHEET 1 OF 1





# ***SURGE HOPPER***

**Evenly Distributes  
Material**

**Essential for Bulk  
Loading**

**Models:**

AMSH86-12

AMSH86-18

AMSH86-24

*Environmentally friendly*

*Reduces waste*

*Provides cost effective remedy  
for environmentally conscious  
communities*

**ANDELA PRODUCTS**

493 State Route 28  
Richfield Springs, NY 13439

Phone: (315) 858-0055  
Fax: (315) 858-2669

[www.andelaproducts.com](http://www.andelaproducts.com)  
[info@andelaproducts.com](mailto:info@andelaproducts.com)



- The Andela Metering Surge Hopper is designed to accept bulk loading of glass or other materials
- Holds 4 cubic yards, or up to 6 cubic yards with optional flared extensions (shown in picture)
- Reciprocating plate feeder meters the flow rate of material into the system
- Adjustable slide gate regulates whole, or mixed broken glass to desired throughput



- Simple to Operate & Maintain
- Easy Installation
- Reasonably Priced
- Heavy Duty Construction
- 12", 18", or 24" wide Discharge
- Abrasion Resistant Materials on All Wear Surfaces



**ANDELA METERING SURGE HOPPER**  
**MODEL AMSH86-12**

**MACHINE SPECIFICATIONS**

Dimensions

Capacity ..... 4 cubic yds.  
Overall Length ..... 105"  
Overall Width ..... 81"  
Overall Height ..... 95"  
Discharge Opening ..... 12" wide x Adjustable Height  
Discharge Height ..... 40"

Drive Componentry

Motor Size ..... (1) 1.5 hp  
Direct Drive System ..... Totally Enclosed Gear Reducer  
..... Reciprocating Plate with Eccentric Drive

Electrical

Motor Voltage ..... 230/460 VAC, 60 HZ, 3 Phase  
Controls ..... Push Button Start/Stop

Selected surfaces lined with abrasion resistant steel for long wear and durability.  
Hopper completely lined with abrasion resistant steel for long wear and durability.

The manufacturer reserves the right to change designs  
and specifications without notice.



# Andela Conveyors

Width Options:  
18", 24", 30" & 36"

Options for length, bed  
type, & pans or covers.

Stainless steel section  
available

## Conveyor Types:

Slider Bed  
Troughing Roll  
Box Wall  
Side Wall

## Belt Tread Type:

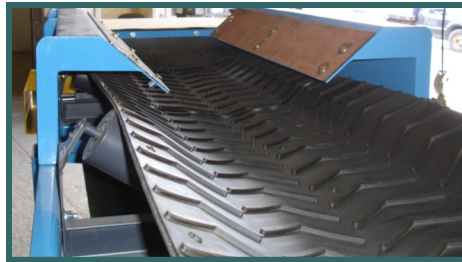
Cleated belt  
Smooth belt  
Chevron belt

## ANDELA PRODUCTS

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[www.andelaproducts.com](http://www.andelaproducts.com)  
[info@andelaproducts.com](mailto:info@andelaproducts.com)



- The Andela Conveyors are provided to safely convey the whole material into our systems.
- Available in many sizes and configurations to fit your system needs.
- Remote grease fittings and lines extend to base of conveyor for ease of maintenance

- **Increases production**
- **Heavy duty construction**





## **ANDELA SYSTEM CONVEYORS** **MACHINE SPECIFICATIONS**

### **Heavy Duty – Troughing**

<b>Overall Length/Width</b>	According to Quotation
<b>Drive System</b>	3-phase motor and gear reducer, direct drive
<b>Conveyor Body</b>	10" x 3/16" formed steel channels
<b>Carry Surface:</b>	Troughing Roller
<b>Belt</b>	Smooth, chevron, or cleated rubber belt
<b>Head Pulley</b>	10" head pulley
<b>Tail Pulley</b>	10" self cleaning tail pulley
<b>Take Up</b>	Adjustable Side Mounted bearings with 1 15/16" bore.
<b>Returns</b>	Return rolls with smooth and chevron belts Belly pans with wear resistant glides for cleated belt
<b>Hopper/Sides</b>	Formed 10 gauge painted steel

The manufacturer reserves the right to change designs  
and specifications without notice.

## **Electrical Control Panel**

**Enclosures** - Enclosures are rated per the environment and are NEMA 4 or better. All enclosures are supplied with an emergency stop.

**Main Disconnect** - The main disconnect is provided with fuses or a circuit breaker and has a “Lockout/Tag out” feature.

**Motor Starters** - The motor starters are IEC rated.

**Variable Speed Drives** – Optional Variable speed drives can be provided and are internally protected for shorts and overloads.

**Branch Circuit Protectors** - The Branch circuit protectors are provided with a circuit breaker and a motor overload as an integral part of the unit.

**Enclosure Heaters** – Optional Heaters are provided for cold weather applications.

**Push Buttons** - All push buttons are Heavy Duty dust tight/water tight design

**Standards** - Built to UL-508 Industrial Standards. Electrical schematics and parts lists are supplied with the unit when the whole system is shipped.



## ANDELA TWIN BARREL GLASS PULVERIZER

### Models:

GP-1HD: 10 TPH

GP-2HD: 20TPH

**Designed for High  
Capacity Applications**

**Flexible Impact  
Hammers**

**Product Destruction**

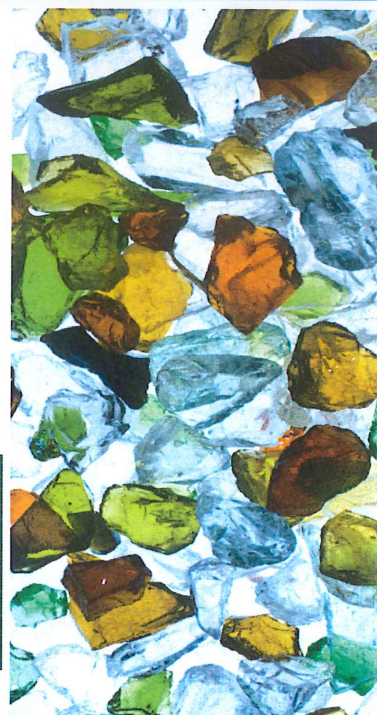
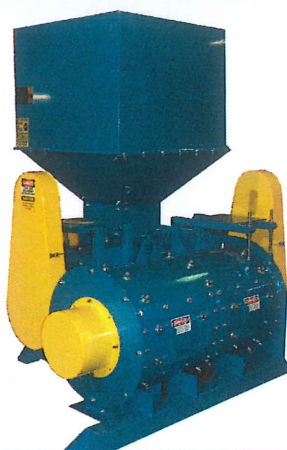
*Reduces waste  
Provides a cost effective remedy  
for environmentally conscious  
communities*

### ANDELA PRODUCTS

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[www.andelaproducts.com](http://www.andelaproducts.com)  
[info@andelaproducts.com](mailto:info@andelaproducts.com)



- Selective size reduction produces a 3/8" minus glass product while leaving non glass residue in-tact for ease of separation
- Can be purchased as a single unit ready for integration or as part of a full system installation (shown above)
- Generates safe handling glass product with no sharp edges suitable for a variety of applications

- Quiet Operation
- Simple to Operate and Maintain
- Low Horsepower
- Reasonably Priced
- Durable
- Bolt in Liners and Hammers for Easy Maintenance.
- Processes whole glass bottles and/or MRF residue

**ATTACHMENT E9**





493 State Route 28 · Richfield Springs, NY · PHONE: (315) 858-0055 · FAX: (315) 858-2669  
website: www.andelaproducts.com email: info@andelaproducts.com

**ANDELA GLASS PULVERIZER**  
**MODEL GP-2HD**  
**(20 tons/hr capacity)**

**MACHINE SPECIFICATIONS**

Dimensions (with support platform)

Overall Length ..... Approx. 88"  
Overall Width ..... Approx. 79"  
Infeed Hopper Opening ..... 36" x 36"  
Machine Input Opening ..... 20" x 20"  
Input Chamber Diameter and Length ..... 30" x 44"  
Output Chamber Diameter and Length ..... 30" x 58"  
Chamber Type ..... Steel Frame & Heavy Duty Support Stand  
Liners ..... Bolt-in Heavy Duty Abrasion Resistant Steel  
Heavy Duty Frame with Vibration Isolation ..... (5) Mechanical Spring Isolators

Drive Componentry

Motor Size ..... Two (2) 20 hp TEFC  
Solid Steel Shaft Diameter ..... 3" Dia.  
Number of Hammers ..... 56  
Hammer Type ..... Flexible Impactor/Hardened Steel  
Bearing Size ..... 3" Dia.  
Seal Protection..... Two (2) Seals at Each Shaft Bearing

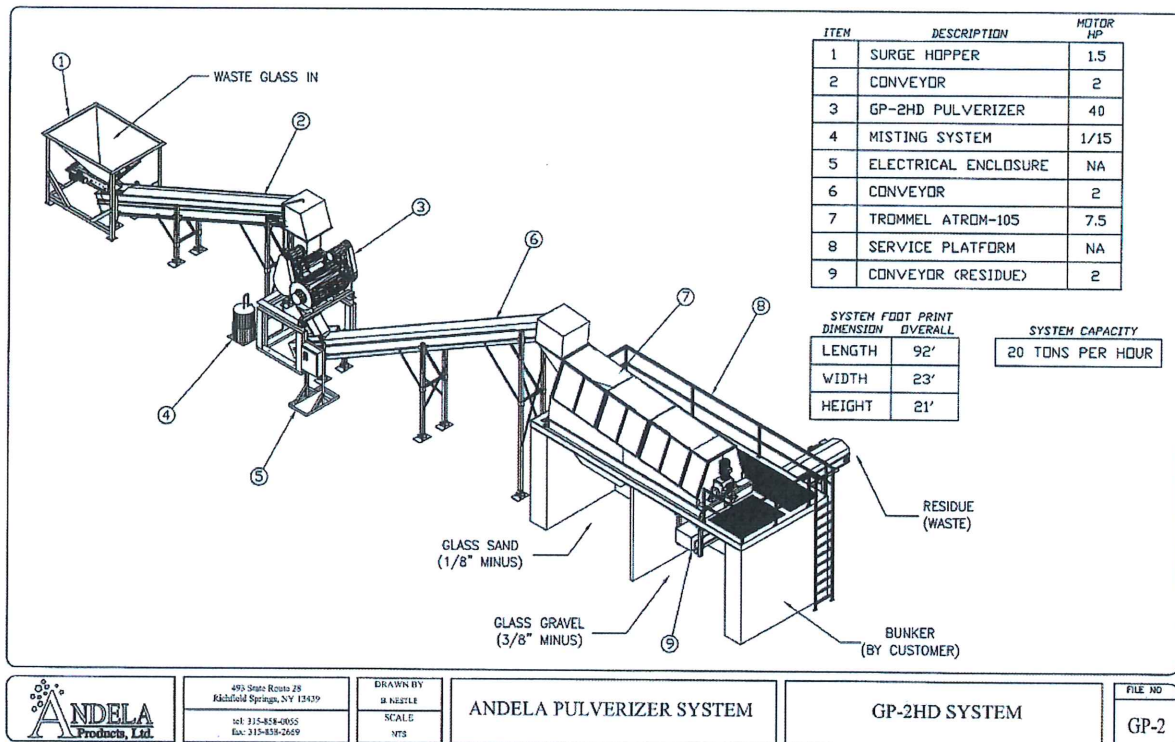
Safety & Maintenance Features

Protective Guards ..... Cover Input Hopper, Drive Unit and Bearings  
Access Doors ..... Removable Panels for Hammer and Liner Maintenance  
Dust Control Misting System ..... Pump with Adjustable Spray Nozzle

Electrical

Motor Voltage ..... 230/460 VAC, 60 HZ, 3 phase  
(or to customer specifications)

The manufacturer reserves the right to change designs  
and specifications without notice.  
06-29-12







# *SURGE HOPPER*

**Evenly Distributes  
Material**

**Essential for Bulk  
Loading**

**Models:**

AMSH86-12

AMSH86-18

*Environmentally friendly*

*Reduces waste*

*Provides cost effective remedy  
for environmentally conscious  
communities*

## **ANDELA PRODUCTS**

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Richfield Springs, NY 13439

Phone: (315) 858-0055

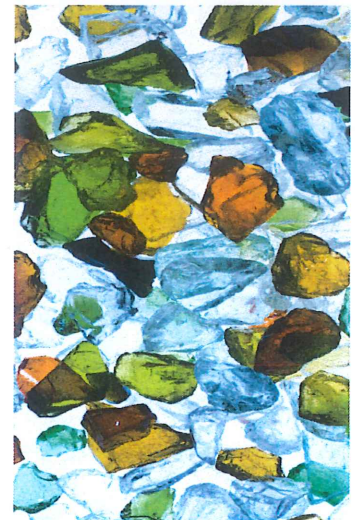
Fax: (315) 858-2669

[www.andelaproducts.com](http://www.andelaproducts.com)

[info@andelaproducts.com](mailto:info@andelaproducts.com)



- The Andela Metering Surge Hopper is designed to accept bulk loading of glass or other materials
- Holds 4 cubic yards, or up to 6 cubic yards with optional flared extensions (shown in picture)
- Reciprocating plate feeder meters the flow rate of material into the system
- Adjustable slide gate regulates whole, or mixed broken glass to desired throughput



- Simple to Operate & Maintain
- Easy Installation
- Reasonably Priced
- Heavy Duty Construction
- 12" or 18" wide Discharge
- Abrasion Resistant Materials on All Wear Surfaces



**ANDELA METERING SURGE HOPPER**  
**MODEL AMSH86-18**

**MACHINE SPECIFICATIONS**

Dimensions

Capacity ..... 4 cubic yds.  
Overall Length ..... 105"  
Overall Width ..... 81"  
Overall Height ..... 89"  
Discharge Opening ..... 12" wide x Adjustable Height  
Discharge Height ..... 40"

Drive Componentry

Motor Size ..... (1) 1.5 hp  
Direct Drive System ..... Totally Enclosed Gear Reducer  
..... Reciprocating Plate with Eccentric Drive

Electrical

Motor Voltage ..... 230/460 VAC, 60 HZ, 3 Phase  
Controls ..... Push Button Start/Stop

Selected surfaces lined with abrasion resistant steel for long wear and durability.  
Hopper completely lined with abrasion resistant steel for long wear and durability.

The manufacturer reserves the right to change designs  
and specifications without notice.  
1-12-2017





## *TRANSFER CONVEYORS*

Belt Width Options:

18", 24", 30" & 36"

Variable Lengths, Bed  
Types, & Pans Available.

Stainless Steel Sections  
for Crossbelt Magnets

### **Conveyor Types:**

Slider Bed

Troughing Roll

Box Wall

Side Wall

### **Belt Tread Type:**

Cleated belt

Smooth belt

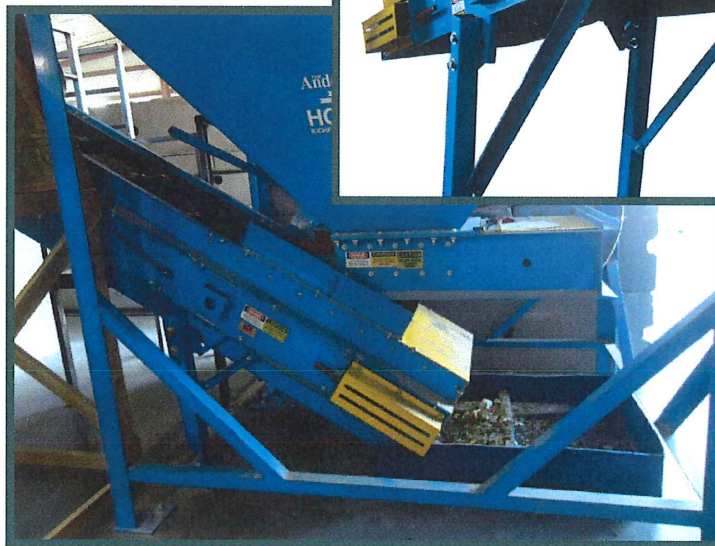
Chevron belt

### **ANDELA PRODUCTS**

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[info@andelaproducts.com](mailto:info@andelaproducts.com)



- Andela Conveyors are available in various sizes and configurations to fit any application
- Remote grease fittings and lines extend to base of conveyor for ease of maintenance

- **Increases Production**
- **Less Handling of Material**
- **Heavy Duty Construction**





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## **ANDELA SYSTEM CONVEYORS** **MACHINE SPECIFICATIONS**

### **Heavy Duty – Troughing**

<b>Overall Length/Width</b>	According to Quotation
<b>Drive System</b>	3-phase motor and gear reducer, direct drive
<b>Conveyor Body</b>	10" x 3/16" formed steel channels
<b>Carry Surface:</b>	Troughing Roller
<b>Belt</b>	Smooth, chevron or cleared rubber belt
<b>Head Pulley</b>	10" head pulley
<b>Tail Pulley</b>	10" self cleaning tail pulley
<b>Take Up</b>	Adjustable Side Mounted bearings with 1 15/16" bore.
<b>Returns</b>	Return rolls with smooth and chevron belts Belly pans with wear resistant glides for cleared belt
<b>Hopper/Sides/</b>	Formed 10 gauge painted steel

The manufacturer reserves the right to change designs  
and specifications without notice.  
1-2017



# *TROMMEL SEPARATORS*

30" & 48" diameters

6ft–15ft long

1.5 HP–7.5 HP

3 material separations

1 or 2 aggregate sizes

1 oversize / residual

## **Various Applications**

Glass  
Compost  
Plastics  
Rubber  
Gravel  
Mixed Material

## **ANDELA PRODUCTS**

493 State Route 28  
Richfield Springs, NY 13439  
Phone: (315) 858-0055 ex 224  
Fax: (315) 858-2669

[www.andelaproducts.com](http://www.andelaproducts.com)  
[jcroft@andelaproducts.com](mailto:jcroft@andelaproducts.com)



The Andela Trommel Separator is designed to separate and size aggregate using woven wire mesh or perforated plate.

Our trommels feature direct drive systems flexibly mounted with totally enclosed gear reducers for long lasting performance.

Comes equipped with rotating brushes for cleaning the screens.

Customizable chutes build to customer specification.

- Simple to operate and maintain
- Easy Installation
- Reasonably priced
- Durable
- Totally enclosed with easy access doors
- Single frame construction





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website: www.andelaproducts.com email: info@andelaproducts.com

**ANDELA TROMMEL SEPARATOR**  
**MODEL ATROM-105**  
**THREE SCREEN**

**MACHINE SPECIFICATIONS**

Screen Sizes

Screen #1 .....3/16" screen opening or to specification  
.....48" OD x 5' long  
Screen #2 .....3/16" screen opening or to specification  
.....48" OD x 5' long  
Screen #3 .....7/16" screen opening or to specification  
.....48" OD x 5' long

Categories of Separation

3/16" minus – glass sand (or to specification)  
3/16" – 7/16" – glass gravel (or to specification)  
7/16" plus - residue

Features

Overall Length .....Approx. 21 ft  
Overall Width .....Approx. 6 ft  
Enclosure .....Complete Sheet Metal Enclosure  
.....Hinged Service Door for Screen & Brushes  
Screen Barrel Diameter and Length.....48 in x 17 ft  
Screen Type .....Stainless Steel Woven Wire  
Rotating Brushes.....(3) – 7 in diameter  
Maintenance Features.....Central lubrication Block, External Mount

Drive Componentry

Motor Size .....(1) 7.5 hp  
Direct Drive System ..... Totally Enclosed Gear Reducer  
.....Flexible Mount

Electrical

Motor Voltage..... 230/460 VAC, 60 HZ, 3 Phase

The manufacturer reserves the right to change designs  
and specifications without notice.  
1-2016

**ATTACHMENT E16**



*Andela Glass Pulverizer*  
*Budgetary Turnkey System Pricing 2019*

<i>GP-MINI</i>	<i>1,500 LBS/HR</i>	<i>\$28,400</i>	
<i>GP-MEGAMINI</i>	<i>1 TPH</i>	<i>\$50,000</i>	
<i>GP-05L</i>	<i>1-2 TPH</i>	<i>\$111,600</i>	
<i>GPT-1HD</i>	<i>3-5 TPH</i>	<i>\$170,000</i>	
		<i>\$192,600</i>	<i>WITH SERVICE PLATFORM</i>
<i>(ADD \$47,000 FOR ADDITIONAL GLASS CLEAN-UP SYSTEM)</i>			
<i>*GP-1HD</i>	<i>10 TPH</i>	<i>\$249,500</i>	
		<i>\$287,700</i>	<i>WITH SERVICE PLATFORM</i>
<i>(ADD \$58,000 FOR ADDITIONAL GLASS CLEAN-UP SYSTEM)</i>			
<i>(ADD \$80,000 FOR WINDSHIELD STRIPPER + CONVEYOR)</i>			
<i>*GP-2HD</i>	<i>20 TPH</i>	<i>\$309,200</i>	
		<i>\$375,500</i>	<i>WITH SERVICE PLATFORM</i>
<i>(ADD \$63,000 FOR ADDITIONAL GLASS CLEAN-UP SYSTEM)</i>			
<i>(ADD \$80,000 FOR WINDSHIELD STRIPPER + CONVEYOR)</i>			

---

*Andela Laminated Glass Processing System*

<i>AWS-2/ATROM-104</i>	<i>3-5 TPH</i>	<i>\$170,000</i>	
		<i>\$192,600</i>	<i>WITH SERVICE PLATFORM</i>

*(Pricing provided does NOT include cost of shipping or installation)*

**DRAFT - Schedule of towns sending workers/volunteers for the 2020 HHW Events.**

EVENT LOCATION DATE	Bethel May 9, 2020	Newtown June 6, 2020	Brookfield Sept. 12,2020	Ridgefield Oct. 10, 2020	Danbury Nov. 7, 2020	New Milford TBD
3 workers or volunteers	Bethel	Bethel	Danbury	Sherman	Bethel	Sherman
3 workers or volunteers	Newtown	Newtown	Kent	New Fairfield	New Fairfield	Kent
3 workers or volunteers	Danbury	Danbury	New Milford	New Milford	Danbury	New Milford
3 workers or volunteers	Ridgefield	Ridgefield	Bridgewater	Ridgefield	Ridgefield	Bridgewater
3 workers or volunteers	Redding	Brookfield	Brookfield	Redding	Redding	Warren
3 workers or volunteers	Bridgewater	New Fairfield	Newtown	Newtown	Brookfield	Washington

Number of  
events to cover

Bethel	3
Bridgewater	3
Brookfield	3
Danbury	4
Kent	2
Newtown	4
New Fairfield	3
New Milford	3
Redding	3
Ridgefield	4
Sherman	2