

RECYCLING AND WASTE MANAGEMENT PROGRAM

Rod Robison
Environmental Services Program Administrator

Curbside Collection, Disposal, and Processing

The municipal curbside collection program provided trash and recycling services to 3,517 households. Subscribers to the municipal curbside collection program set out 1,181 tons of mixed paper, 579 tons of commingled containers, and 2,544 tons of trash for collection. The average subscriber on the Town's curbside program recycled 0.50 tons of materials and threw away 0.72 tons of trash.

SUBSCRIBERS (AS OF JUNE 30)

Year	Number of Subscribers	Recyclables collected (tons)	Trash collected (tons)	Recycling Rate
FY98	2,518	1,264	2,351	35%
FY07	3,184	1,982	2,559	44%
FY08	3,305	2,025	2,467	45%
FY09	3,323	1,864	2,387	44%
FY10	3,407	1,810	2,426	43%
FY11	3,468	1,780	2,483	42%
FY12	3,488	1,794	2,484	42%
FY13	3,514	1,734	2,513	41%
FY14	3,517	1,760	2,544	40%

Curbside Recycling Rate

Residents using Concord's municipal curbside collection program recycled 40% of the materials they set at the curb. This figure does not include yard waste, which residents manage at home or drop off at the Composting Site on Saturdays, April through November. It does not include the tons of materials collected for recycling at the semi-annual DropOff-SwapOff days nor does it include information on the more than 1,000 households that contract with private haulers for the collection of their trash and recyclable materials.

Recycling Savings Exceed \$2.0M

The curbside program received revenue of \$5,904 for paper and avoided \$89,756 in disposal costs by not disposing of paper as trash. Since July 1998, when the Town began receiving revenue for recycled paper, recycled paper revenue has totaled \$494,012 and avoided disposal costs have totaled \$1,575,459 for an overall savings of \$2,069,471. The Municipal Collection Program received an average of \$4.99 per ton for recycled paper collected at the curb.

RECYCLING SAVINGS

Year	Disposal Cost	Paper Revenue	Avoided Disposal Cost
FY98	\$110,564	(\$8,061)	\$38,798
FY07	\$195,783	\$35,302	\$119,898
FY08	\$194,254	\$58,188	\$116,818
FY09	\$194,254	\$25,833	\$93,282
FY10	\$186,786	\$20,220	\$93,247
FY11	\$191,191	\$30,325	\$91,915
FY12	\$191,815	\$32,200	\$92,352
FY13	\$196,067	\$4,981	\$86,868
FY14	\$193,318	\$5,904	\$89,756

Waste Management Contract

The Town's contract with Waste Management for the curbside program is effective through 6/30/16. CPW is currently researching and evaluating procurement options for a new solid waste & recycling contract that will best fit the needs of the curbside program beyond 7/1/16.



Great turnout at the Fall DropOff & SwapOff event.

Reuse and Recycling DropOff & SwapOff Events

The Spring DropOff & SwapOff event on May 10th attracted 931 households. The Fall DropOff & SwapOff event on October 18th was also a great success with 893 households participating. Both events went smoothly, thanks to the volunteers that make these events possible.

DROPOFF SWAPOFF PARTICIPANTS

Year	May	October
1999	521	430
2007	908	840
2008	974	918
2009	889	981
2010	931	989
2011	979	891
2012	890	852
2013	893	851
2014	931	893

Unwanted Medication & Sharps Collection

Unwanted medication & Sharps were collected at the May 10th and October 18th DropOff events. Nine boxes of unwanted medication and eleven boxes of Sharps were collected between the two events.

Hazardous Products Collection

Subscribers to the curbside collection program receive one free pass per year to the Minuteman Hazardous Products Regional Facility in Lexington, where they can dispose of hazardous waste. The facility is open one weekend day a month from April – November. Fifty-six curbside subscribers visited the site in 2014, along with three non-curbside subscribers who paid the vendor directly. Additionally, Concord Public Works hosted a hazardous waste collection for residents that was attended by 133 curbside subscribers and 19 non-subscribers.

Composting Site Turns Yard Waste into Garden Gold

From April through December 2014, residents made more than 6,800 visits to the Compost Site, dropping off leaves, grass clippings and brush, while 351 residents dropped off paint at the paint shed and 182 residents picked up paint for reuse. At the Compost Site, 1,050 Christmas trees were recycled and 117 bags of Styrofoam were collected for recycling.

VISITS TO THE COMPOSTING SITE

Year	Leaves & grass	Brush	Paint Drop-off	Paint Pickup
2003	5,825	334	138	90
2004	5,963	329	204	148
2005	6,078	418	230	118
2006	6,651	615	298	158
2007	7,880	697	296	171
2008	8,093	508	222	138
2009	6,723	667	210	145
2010	6,470	587	252	156
2011	5,106	650	279	156
2012	5,376	667	200	190
2013	6,547	675	341	183
2014	6,484	371	351	182

Landfill Solar Development

CPW and the Town’s third party engineer, Weston & Sampson, oversaw solar development site work performed by the general contractor, Innovative Engineering Solutions, Inc., and their subcontractors (T-Ford and Fishbach & Moore) at the Town’s former landfill, to ensure all work was in compliance with the requirements of the Post Closure Use Permit (PCUP). Weekly plan-

ning & progress meetings were conducted, either onsite or via conference call, and these meetings were attended by Dick Fowler, Rod Robison, and representatives from Weston & Sampson. The solar array project and site remediation work was completed by IESI in June.

Keeping Mercury Out Of The Environment

Concord Public Works collected 11,852 linear feet of fluorescent light bulbs and 647 lbs. of nickel cadmium, lithium, and lead acid batteries from residents and municipal facilities, for recycling. This is in addition to 44,239 lbs. of computers, TV’s, and other electronics that were collected at the two DropOff events. Another 2,399 linear feet of fluorescent bulbs and 2,672 lbs. of computers and electronics were collected from businesses at the April and October business recycling events.

Annual Right-To-Know, Hazardous Waste Management, & SPCC Training

Annual Right-To-Know (RTK), Hazardous Waste Management, and SPCC (Spill Control & Countermeasure) training was conducted for CPW employees. The RTK training is required by the Mass. Division of Occupational Safety (DOS), while Hazardous Waste Management and SPCC training are mandated by the EPA and MassDEP.

DEP Sustainable Materials Recovery Program Grant

CPW submitted a grant application and was awarded a “reimbursement” grant in the sum of \$1,250 for the purchase of seven new wire-frame recycling bins, under the DEP’s Sustainable Materials Recovery Grant Program.

WATER AND SEWER DIVISION

Alan H. Cathcart, Superintendent

In 1974 and 1976, Annual Town Meeting established separate Water and Sewer Enterprise Funds, to ensure that the operation, maintenance and capital improvement of Concord’s water and sewer systems would be financially viable. Expenses incurred for each system are covered by revenues generated by the enterprise. The Water and Sewer Division of Concord Public Works (CPW) is responsible for managing the day-to-day operations of drinking water and sewer infrastructure. As of 2013, the total assets for each system are 19.8 million and 22.9 million dollars, respectively.

WATER SYSTEM

Concord was provided with legislative authority to establish a public water system in 1872. In 1874, water from