

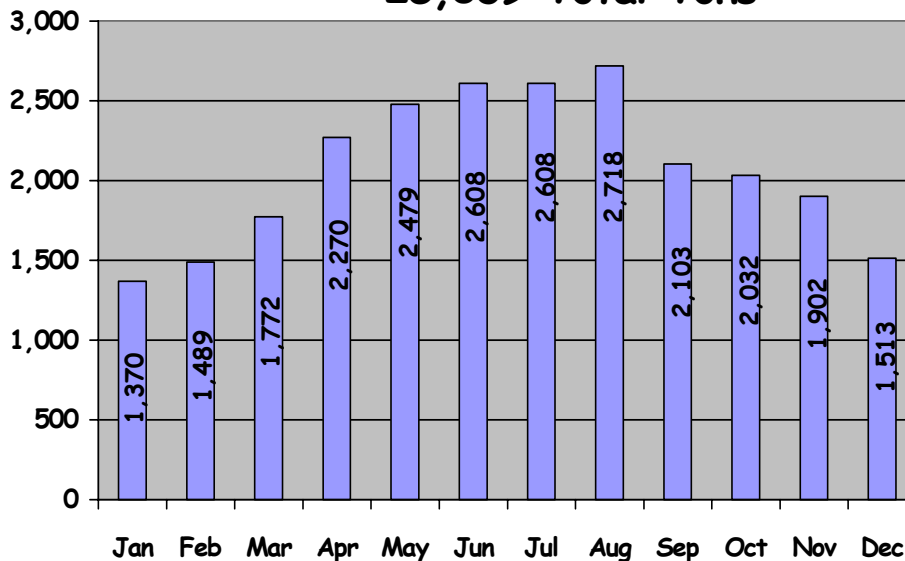
PROGRAM HIGHLIGHTS

Disposal

The County continued to export waste to Seneca Meadows landfill in 2005 through our current contract with We Care, Inc. located in Waterloo, New York. In 2005, 25,039 tons of wastes were received at the Recycling and Solid Waste Center compared to the tonnage in 2004 of 22,038.

The Recycling Supervisor provides management of all disposal services and contracts.

2005 Solid Waste Garbage Tonnages
25,039 Total Tons



Scalehouse

The staff associated with scalehouse operations are Debra Barnard, Weighmaster, Michael Armstrong, Senior Account Clerk/Typist and Priscilla Bingham, Solid Waste Assistant with supervision provided by the Assistant Solid Waste Manager. Although recycling customers may bypass the scalehouse, it is the first stop for customers disposing of garbage at the Recycling and Solid Waste Center. The scalehouse operates Monday through Saturday, from 7 am to 3:30 pm, 59.5 hours per week. There are only 6 days per year that the scale is closed due to holiday. There is one primary weighmaster, two fill-in weighmasters and several employees that are able to work as needed in addition to their regular duties. Usually only one weighmaster is required to provide for the needs of our customers. However, on Saturdays and other high volume times, two weighmasters fill in as necessary to facilitate quick access in and out of the facility. All scalehouse staff are fully trained and licensed.

It is important to remember that for each scale transaction, the weighmaster serves the customer twice (inbound and outbound). In 2005, there were 107,304 scalehouse transactions. 96,658 of these were for incoming waste, 2,188 special fee (permits/punchcards) transactions, 6,012 curbside or other recycling transactions and 2,395 outbound transactions, (i.e. garbage bound for disposal at Seneca Meadows Landfill or processed recyclables). Please see the recycling section of Annual Report for more detailed recycling material information.

Operations at the scalehouse include, but are not limited to: obtaining and recording vehicle weights, entering permit and load information into the computer, answering questions and directing vehicles, selling one-day permits and punchcards, monitoring uncovered loads, obtaining payment, issuing receipts, generating daily reports and daily accounting of the scalehouse receivables.

In addition to the commercial and residential customers, the scalehouse processes all transactions in relation to the waste leaving the facility, curbside recycling, hauler recycling, and outbound recycling loads.

Approved commercial accounts are allowed to charge their disposal fee. At the beginning of each month, invoices are generated for the previous months' charge transactions. In 2005, the total disposal revenue generated was \$1,744,175.60. Of this total, \$663,072.42 of the revenue was from charge accounts, \$588,774.65 was paid in cash and \$492,328.53 was paid by check.



Recycling

The Solid Waste Management Division continues to provide and support recycling opportunities for County residents, businesses and institutions. During 2005 the County received and processed 16,970 tons of recyclables at the County Recycling and Solid Waste Center, including non-revenue producing recyclable materials such as yard waste, tires and household hazardous waste. The total revenue from the sale of recyclable materials was \$1,244,516 in 2005. Through the revenue sharing agreement between the County and Recycle America, the County share of the total revenue was \$871,161 (70%) in 2005.

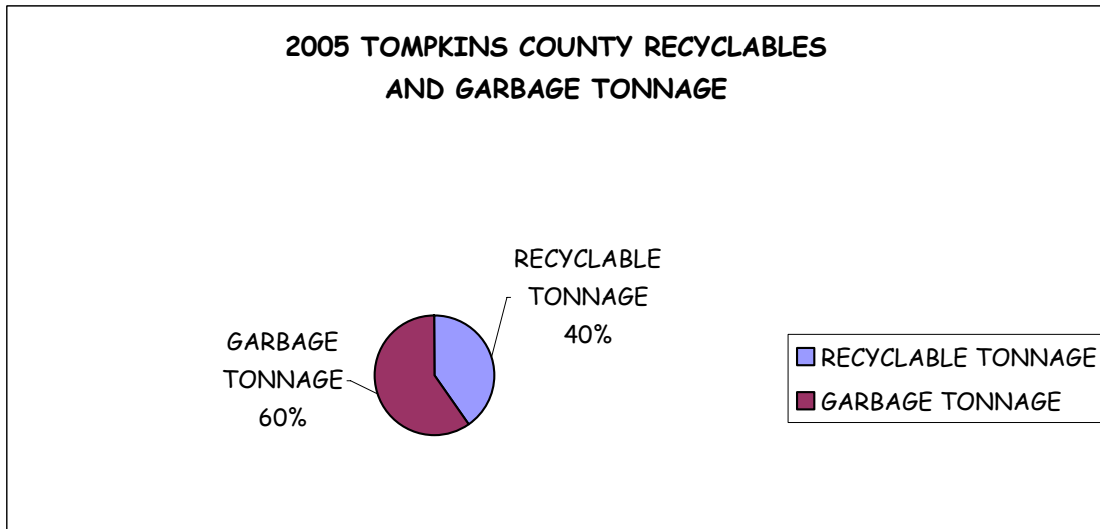
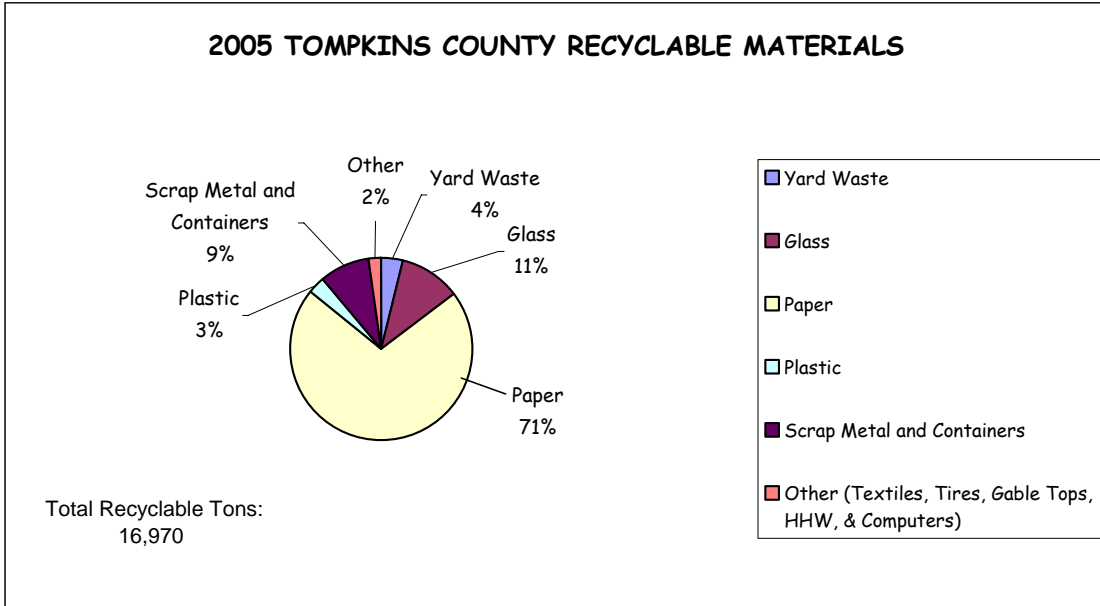
All recycling programs and vendor contracts are managed by the Recycling Supervisor. The County also provides a countywide curbside collection of recyclables. Annually, 6,000 tons of recyclables are collected for this program. Curbside recycling is a bi-weekly collection. Daily program support is provided by the Solid Waste Operations Specialist and Administrative staff with general supervision by the Recycling Supervisor.

Included in these recycling tonnages are more than 150 tons of Household Hazardous Waste (HHW) and 86 tons of computers. The County continues to provide recycling opportunities at the County HHW facility for small businesses known as (CESQG's) conditionally exempt small quantity generators. This program provides an environmentally safe method for handling hazardous wastes generated by small businesses.



2005 SOLID WASTE TONNAGE

RECYCLABLE MATERIAL	TONS	PERCENT	RECYCLABLE TONNAGE	TONS	PERCENT
Yard Waste	677	4%	RECYCLABLE TONNAGE	16,970	40%
Glass	1,813	11%			
Paper	12,060	71%	GARBAGE TONNAGE	25,075	60%
Plastic	528	3%			
Scrap Metal and Containers	1,536	9%	TOTAL TONNAGE	42,045	100%
Other (Textiles, Tires, Gable Tops, HHW & Computers)	356	2%			
TOTAL				16,970	100%



2005 Recycling Data

	<u>2004</u>	<u>2005</u>
Marketable Recycling Tonnage:	16,970	15,981
Total County Revenue:	\$712,486	\$871,161
Processing Cost:	\$671,260	\$680,291



2005 Recycling Tonnages by Materials

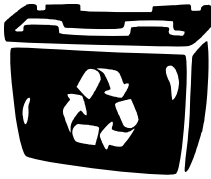
<u>Materials</u>	<u>Tons</u>
Mixed Waste Paper	1,226
Hard Pack	2,621
Mixed Office Waste	816
Old Newspaper	3,231
Old Corrugated Cardboard	4,166
Aggregrate Glass	1,723
Amber Glass	23
Flint Glass	67
HDPE Colored - Plastic (#2)	168
HDPE Natural - Plastic (#2)	167
PET Plastic (#1)	193
Ferrous Containers	460
Aluminum	16
Gable Tops	44
Scrap Metal	1,060
Sub-Total Marketable Recyclables	15,981
HHW & Computers	244
Tires	60
Yard Waste	677
Textiles	<u>8</u>
Grand Total Recyclables	16,970

Tompkins County
Average Annual Recyclable Materials Revenue
(in dollars)

	2001	2002	2003	2004	2005
Hard Pack			46	60	45
MWP	19	37	43	51	41
ONP	62	62	65	81	69
OCC	59	71	62	85	70
MOW	88	106	113	129	100
PET	221	125	206	340	341
HDPE-Nat	255	271	337	454	660
HDPE-Col	138	148	235	305	465
Scrap Metal	34	28	29	29	54
Ferrous Containers	14	37	70	176	102
Aluminum	845	853	915	1160	1400
Aggregate Glass	(25)	(25)	(16)	(13)	(13)
Gable Tops	35	38	40	43	40
() indicate a cost					

- HPP - Hard Pack paper
- MWP** - Mixed Waste Paper
- ONP** - Old Newsprint
- OCC**- Old Corrugated Cardboard
- MOW** - Mixed Office Waste
- PET** - Polyethylene Terephthalate
- HDPE-Nat** - Milk jugs
- HDPE-Col** - Colored Plastic Jugs





Tompkins County Recyclable Material Markets 2005

Commodity	Market	Market Location
#8 News	Atlantic packaging Kruger Abitibi Bowater	Thorold, ON Bromptonville, PQ Thorold, ON Gatineau PQ
OCC	Solvay Paperboard	Syracuse, NY
Mixed Paper	Norampac US Gypsum Solvay Paperboard	Niagara Falls, NY Clark, NJ Syracuse, NY
Office Mix	Scott Paper Company Paperboard Ind. AFR Cascade	Crabtree, PQ Toronto, Canada Fairmont, WV Kingsey Falls, PQ
HARD PAK	Norampac Solvay Paperboard	Niagara Falls, NY Syracuse, NY
HDPE	Clean Tech Entropex Enviroplastics KW Plastics Graham Berou	Dundee, MI Sarnia, ON Auburn, MA Troy, AL York, PA Anjou, PQ
Gable Top	Paper Tigers	Bannockburn, IL
PET	Wellman Inc	Charlotte, NC
Amber Glass	Central Recycling	Elmira, NY
Flint Glass	Central Recycling	Elmira, NY
3 Mix Glass	Broome County Landfill	Binghamton, NY
Aluminum	USM Recycling	Chicago, IL
Tin	Poscor Tube City	Hamilton, ON Gassport, PA
Textiles	Cyntex	Hartsdale, NY
Scrap Metal/White Goods	Reamer	Ithaca, NY
Lead Acid Batteries	Interstate Battery Systems	Corning, NY
Tires	Tire Solutions	Seneca Falls, NY
Yard Waste	Tompkins County	Lansing, NY

2005 Recycling and Solid Waste Center Vehicle Count

Month	Scalehouse Traffic	Drop Off Center	Tip Floor Traffic	Total Vehicles
January	6,524	9,289	1,870	11,159
February	6,848	9,104	2,074	11,178
March	7,754	12,040	2,572	14,612
April	9,749	12,352	3,854	16,206
May	9,765	11,710	4,251	15,961
June	10,594	12,790	4,376	17,166
July	10,617	13,046	4,208	17,254
August	10,978	12,853	4,774	17,627
September	9,198	11,209	3,639	14,848
October	8,850	10,920	3,625	14,545
November	8,497	11,370	3,438	14,808
December	7,929	11,655	2,690	14,345
<i>2005 Totals</i>	<i>107,303</i>	<i>138,338</i>	<i>41,371</i>	<i>179,709</i>
<i>2004 Totals</i>	<i>108,743</i>	<i>141,676</i>	<i>43,336</i>	<i>185,012</i>

**The 'Total' columns are calculated by adding the Drop Off and Tip figures.
The Scale figures are already included in the Drop Off and Tip figures.*



Significant Elements

Nonprofit Architectural Salvage Warehouse
A Program of Historic Ithaca, Inc.



OPERATIONS

Historic Ithaca's Significant Elements Program continued to grow and mature, experiencing a small slump in sales in 2005. The previous year saw an increase in sales of 52%. In 2005 the steep growth leveled off, and experienced a reduction in sales by 17%. The program faced several challenges, the largest being that we reached maximum capacity inside its warehouse space, and floor space. A strategy was implemented to reduce the quantity of acceptable materials and increase the quality of existing stock. Acceptance of materials was restructured to reduce less desirable items, while many of the materials that had been languishing were liquidated at rock-bottom prices. A lot of attention was given to display and cleanliness of materials, and pricing of materials was revisited across the board, resulting in a general reduction in prices hoping to show a positive effect in 2006.

To date, sales are at a 14% increase, and donations are up as well. In addition to lower prices, this is partially attributed to a successful marketing campaign of the program's "Free Fridays", in which materials are given away

shoppers. Although many quality items are made available, these events also serve to increase turnover of less-desirable materials and create more floor space for saleable materials. It also brings new people to the store to see the low prices on quality materials that are for sale year round.

Sales Growth, Donations, and Diverted Resources

Year	Gross Sales	Donations (Est. Resale Value)	Estimated Tons	Annual Visitors
2000	\$5,594	\$12,070	8.5	N/a
2001	\$16,431	\$24,000	18	1,500
2002	\$26,293	\$45,000	33	3,153
2003	\$54,960	\$88,000	65	5,071
2004	\$83,598	\$85,000	70	7,304
2005	\$68,821	\$58,000	55	7,115

PARTNERSHIP with TOMPKINS COUNTY

The Latex Paint Recycling Program is a continued success, with over 400 gallons diverted from the waste stream to date (175 in 2005), and the potential to divert more, as the market demand grows. A customer of Significant Elements quoted her contractor as saying the off-white paint "gave great coverage" over some dark paneling she was having painted.



ReBusiness Partners

Over the years, Tompkins County Solid Waste Management Division has focused much of its waste reduction and recycling outreach activities towards the residents of Tompkins County resulting in a 57% waste diversion rate in the County. We are now increasing our attention towards the business sectors in an effort to further reduce the County's waste.

The ReBusiness Partners is a program to assist local businesses and organizations to reduce waste, increase recycling efforts and to adopt green purchasing practices. Local businesses can benefit from this program by receiving free technical assistance including a waste assessment, free desk-side recycling bins, free signage and public recognition for their efforts to promote a sustainable community. ReBusiness Partners reduce the amount of trash that is being landfilled, save energy and natural resources, and comply with State and Local recycling laws.

To become a ReBusiness Partner, businesses must:

- Have a recycling program set-up to effectively collect all mandatory recyclables;
- Demonstrate at least 3 activities in the areas of waste reduction, reuse or green purchasing (rebuy); and
- Commit to submitting an annual recycling and waste reduction questionnaire, which will be used to assist Solid Waste with NYS reporting requirements.



Reuse

During 2005 the Solid Waste Management Division continued support and partnerships for several innovative reuse programs. While some reuse programs do not divert a high tonnage of materials, these efforts have a positive impact on the community and the environment.

Home Composting with Cornell Cooperative Extension

One of the County's oldest partnerships has been the funding of the Home Composting Program in cooperation with Cornell Cooperative Extension. This program continues to provide ongoing community outreach and education. Cooperative Extension estimates that approximately 2200 tons of food waste and 3000 tons of yard waste have been diverted from disposal in Tompkins County in 2005 by home composting. Program management is provided by the Recycling Specialist with general supervision of the Recycling Supervisor.



Sciencenter Reuse Exhibit

The County established the Re-Invention Station Exhibit at the Sciencenter as part of the 2002 expansion of the Sciencenter. The Sciencenter had over 87,000 visitors in 2005. The Re-Invention Station continues to be one of the most active stations at the Sciencenter. There have been repeated requests to replenish the reusable materials at the County funded exhibit due to the exhibits high usage. This program was a one-time expenditure and is self-sustaining with the County providing re-useable materials for the station and periodic review of the station for possible updates.



Reuse Directory

The County also promotes reuse activities through the publication of the Re-Directory that provides options for reuse and by participation in the Upstate Material Exchange that is a central New York guide to re-useable materials. The County distributed over 5000 copies of the re-directory to local residents, businesses and institutions. The Solid Waste Administrative staff mails and delivers publications to a specified listing as well as to businesses and residents that request them.

Babbage's Basement

Babbage's Basement is a volunteer organization that accepts old computers and peripherals, which are screened, evaluated and refurbished. The refurbished systems are made available to the public for a suggested donation. All funds generated by this program are donated to the Sciencenter. In addition to the computer reuse program this organization manages Einstein's Attic, which is a program that accepts used electronic equipment and laboratory supplies and equipment.

Other Reuse Programs in Tompkins County:

The Student Reuse Project is a program managed by a volunteer organization that accepts all re-useable items, primarily from university students. There is an annual sale in the month of June of all items collected. Proceeds from the sale are donated to charities and the program, including paying for rent for the building where the sale is held each year.



Computer Reuse with Computer All-Stars

During 2005 the County funded the Computer All-Stars program. This program provides training to County youth in computer maintenance and repair. Based on their income, eligible participants end the program with a home computer. This program is managed by the Recycling Specialist with general supervision by the Recycling Supervisor.

2005 Distribution of Computers from Computer All-Stars

<u>Municipality</u>	<u>2005</u>	<u>2004</u>
	<u>Number of Computers</u>	
City of Ithaca	31	40
Town of Ithaca	20	23
Newfield	8	10
Town of Lansing	7	0
Town of Enfield	18	8
Town of Groton	1	4
Town of Caroline	3	0
Town of Ulysses	2	3
Village of Trumansburg	4	8
Town of Dryden	3	2
Village of Groton	3	7
Cayuga Heights	0	4
Village of Lansing	3	1
Town of Danby	1	2
Village of Dryden	4	3
Town of Freeville	2	3
Total	110	118



Household Hazardous Waste

The County provided six Household Hazardous Waste collection events at the Center in 2005 for household and commercial generators. A total of 796 households and 11 businesses dropped off over 132 tons of HHW while participating in those events.

The recycled paint program continued in 2005. A total of 110 gallons of re-useable low luster latex paint was salvaged from the collection events. The paint was repackaged, labeled for reuse and sold at Significant Elements retail store.

Thirty-one (31) tons of paints, pesticides and other hazardous liquids, over one ton of fluorescent bulbs and batteries, and 86 tons of computers were all collected through Household Hazardous Waste program efforts. The Recycling Specialist provides day-to-day management with oversight by the Recycling Supervisor.



OLD LANDFILLS

Leachate Management 2005

The County is required by New York State and Federal law to provide post-closure monitoring and maintenance at the Hillview and Caswell Road facilities. The Hillview facility operated from 1970-1992. Capping activities were conducted in 3-phases. Phase I occurred in 1989, Phase II in 1992-93 and Phase III in 1996. In total over 35 acres of landfill capping was installed during the 3 phases. The cost to complete capping activities at Hillview are in excess of 6 million dollars. The Caswell Road facility closed in 1985 and capping occurred during 1986-87. Approximately 32 acres of landfill cap were constructed at a cost of approximately 4 million dollars.

The landfill cap at Hillview consists of 3-1/2 feet of constructed said materials: 1 foot gas vent material, 2 feet barrier protection, 1/2 foot top soil and a 40 millimeter geo-membrane moisture layer. Capping at Caswell is composed of 18-inches of clay and 6-inches of topsoil.

The monitoring network at Hillview is comprised of 32 sites. At Caswell the monitoring consists of 18 monitoring points.

The largest post-closure expense at the landfills is leachate management. Leachate is collected at both facilities in a perimeter collection system. The leachate is then conveyed to on-site storage tanks. A private trucking company under contract to the County services the leachate tanks.

The leachate is transported to the Ithaca Area Wastewater Treatment Plant for proper treatment. Hauling costs currently are \$28.55/1000 gals and treatment costs are \$6.00/1000 gals. In 2005 expenses for this service totaled \$39,000 compared to \$40,000 for 2004.



Caswell Road Landfill 2005

Phase I of the Caswell Landfill management project involved modifications to the leachate collection system and landfill cap. These modifications reduced leachate generation, resulting in lower leachate volumes at the facility. The reason for the reduction is that less surface water and storm water is infiltrating into the landfill. These reductions are the reason for the significant decrease in total volume. See figure 1 in Appendix 5. These volume reductions save the County approximately \$80,000 annually.

Phase II of this study will investigate various options to manage the leachate captured. Currently leachate is pumped onto tractor-trailer tanks and trucked to the Ithaca Wastewater Treatment Plant. Options to evaluate include filtering technologies, on-site wetland treatment, as well as conventional on-site treatment (i.e. package plant). This work will be conducted in 2006.



Post-Closure Maintenance

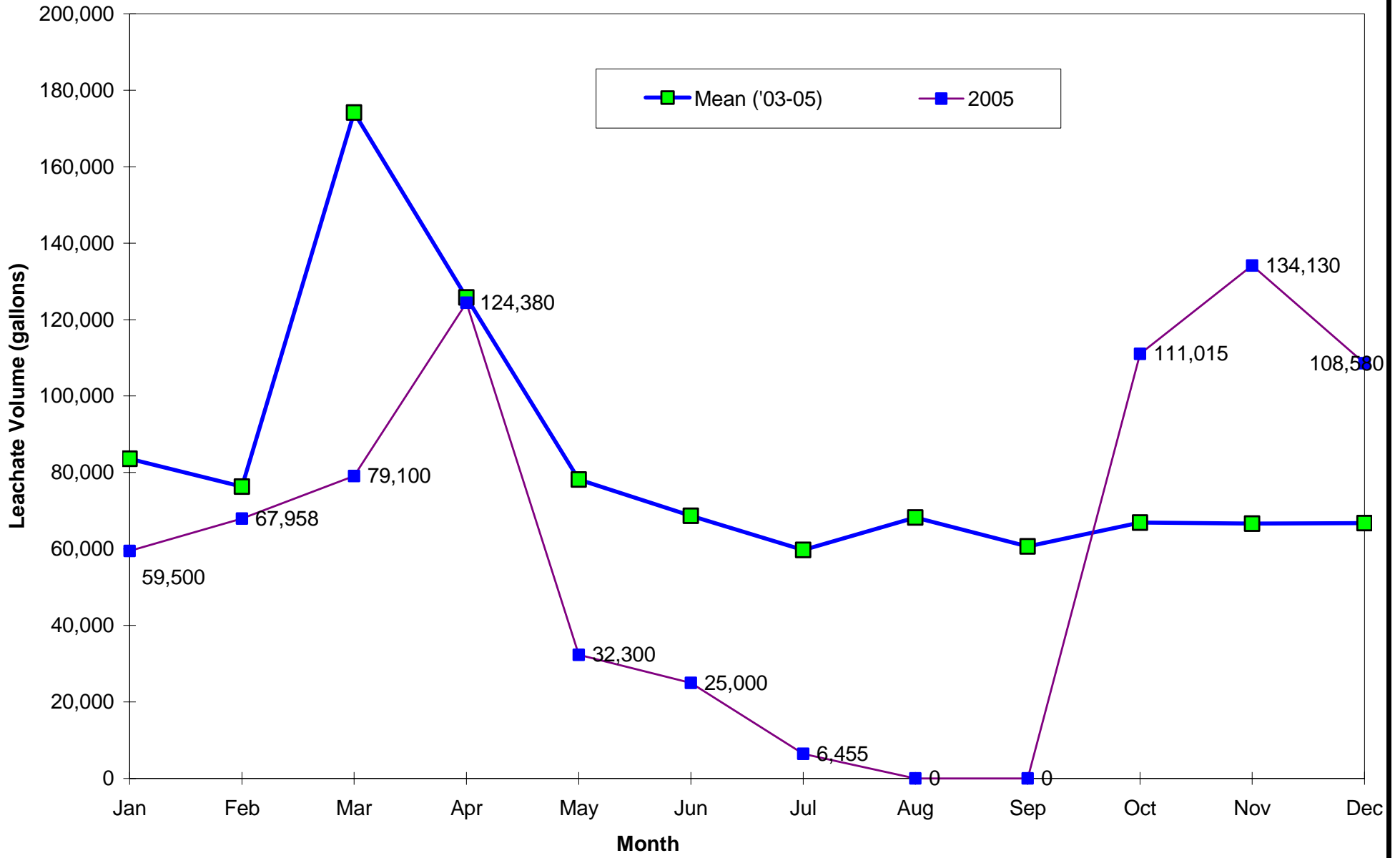
In 2005 the Solid Waste Division continued conducting post-closure monitoring and maintenance at the closed landfills: Caswell and Hillview Road.

Landfill post-closure activities include:

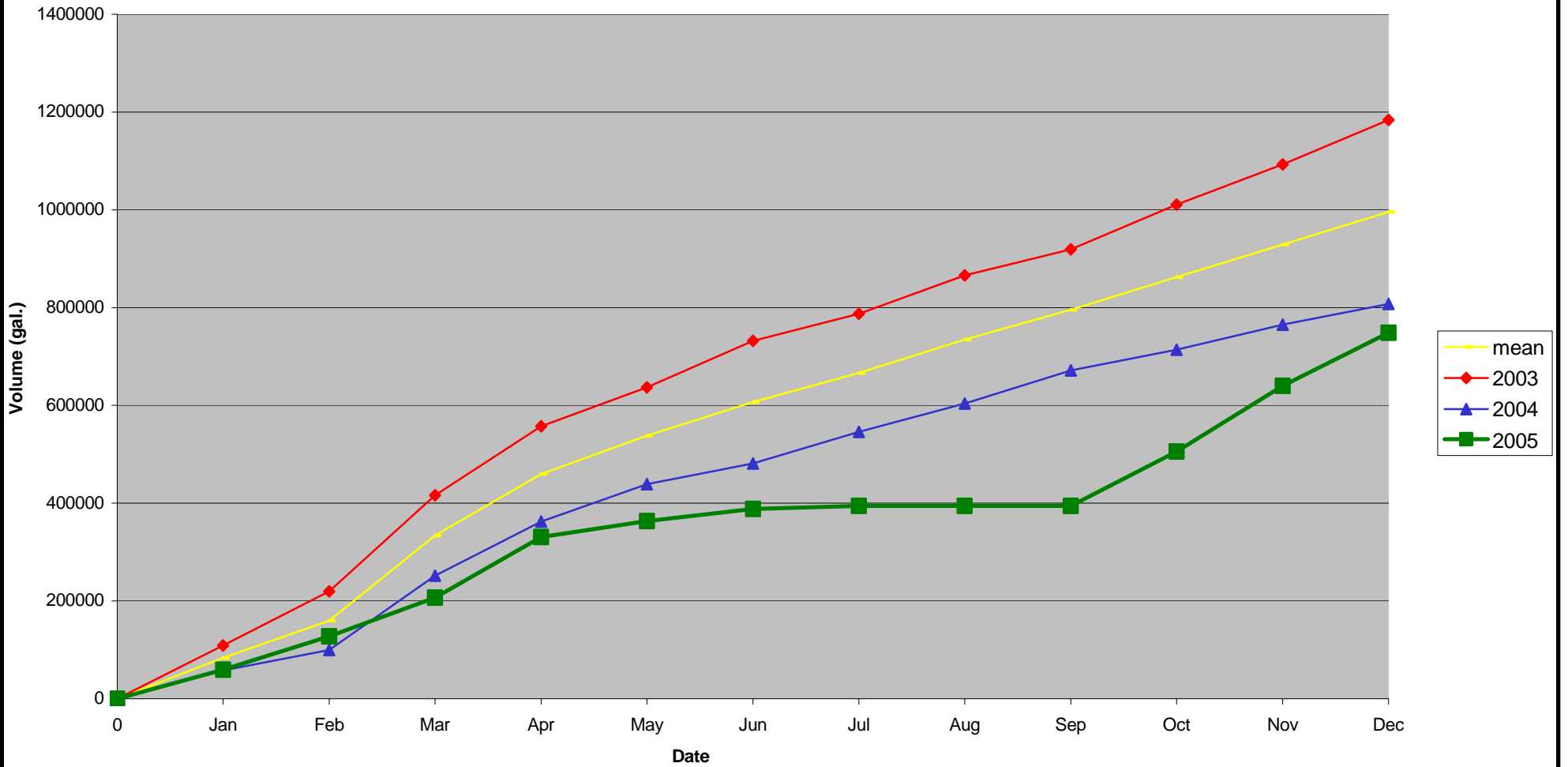
1. quarterly landfill inspections,
2. groundwater monitoring and reporting,
3. inspection and monitoring of leachate collection system, monitoring of leachate removal and treatment,
4. administration of landfill mowing services,
5. road maintenance, including snow removal,
6. landfill gas survey and report,
7. maintenance of facilities, and
8. maintenance of fence and gates.



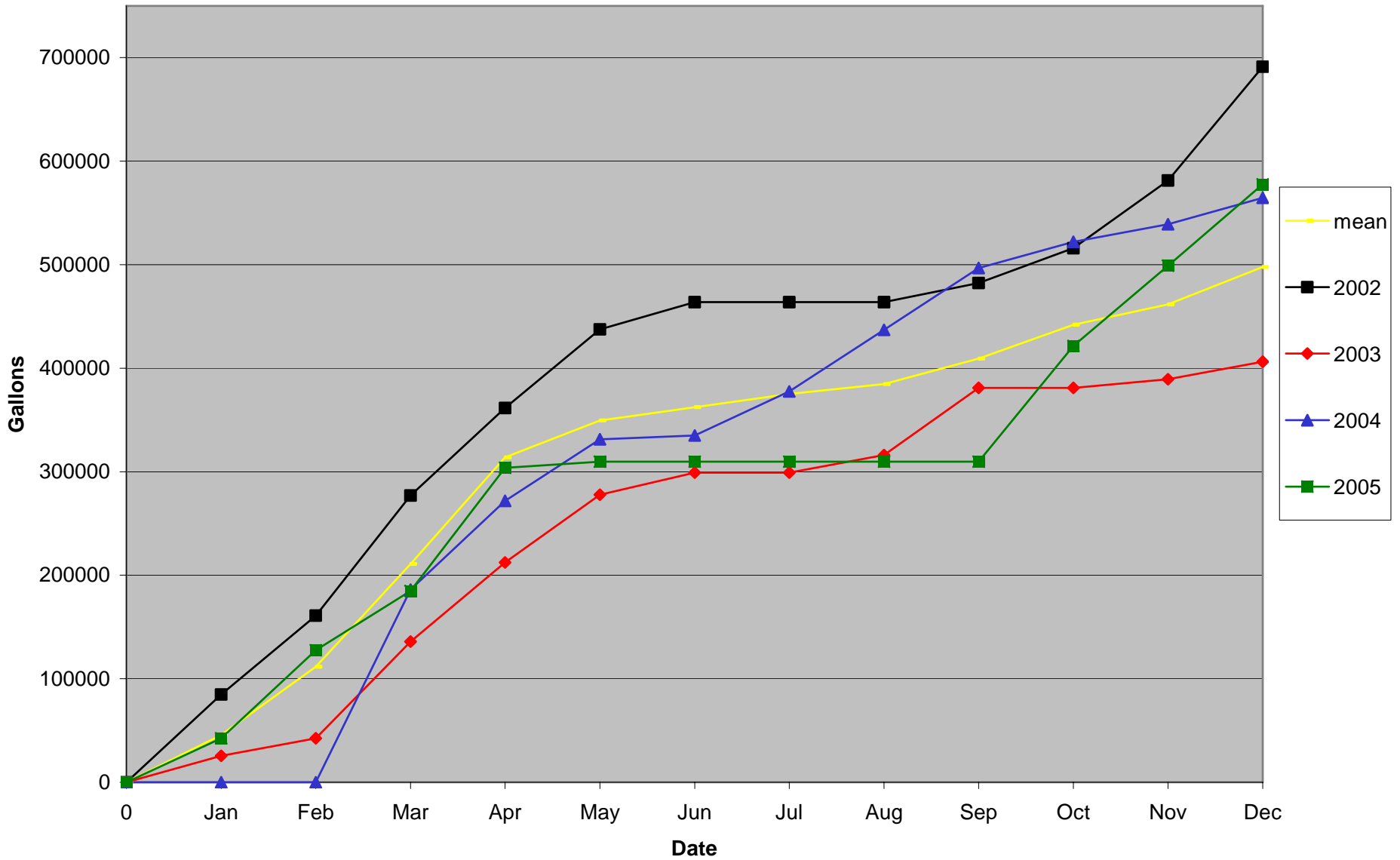
Caswell Road Landfill - Monthly Leachate Hauled



Caswell Road Landfill leachate generation in gallons



HILLVIEW LEACHATE VOLUMES





Solid Waste Enforcement

This program is supported by the Solid Waste Enforcement Officer under the supervision of the Assistant Solid Waste Manager. In 2005, the Solid Waste Enforcement Officer coordinated the removal of over 9 tons of wastes from 89 illegal dumpsites with assistance from various municipalities. In 2004, 7 tons of materials from 82 illegal dump sites were picked up. A total of 347 illegal dumping complaints resulted in 120 tickets or fines, versus 305 complaints and 54 tickets or fines in 2004.

The Solid Waste Management Division worked with the Town of Caroline providing disposal fee waivers that assisted the town during its clean up days. The Town of Caroline brought approximately 7 tons of trash to the RSWC. The Solid Waste Management Division allowed the town to use the remaining 2 tons of an 8-ton waiver provided to the town in 2004. This waiver is valid under the clean up plan for a period of one year from the time the waiver is granted. This program has shown to be successful. New York State Parks brought in almost 533 tons of solid waste exempt under a previous agreement to locate a radio tower on State Park property.

Hauler licensing is another aspect of enforcement administered by the Solid Waste Management Division. The Solid Waste Management Division licensed 24 haulers to conduct business in Tompkins County in 2005.

The Solid Waste Enforcement Officer also enforces uncovered load, mandatory recycling and trash tag regulations. In 2005, the Solid Waste Management Division began a surcharge program for uncovered loads. In 2005, 313 uncovered load incidences were recorded resulting in 286 surcharges. Although this represents an increase over previous years, the number of uncovered loads per month dropped significantly by the year's end. There were 98 trash tag violations in 2005. Several letters were sent to residents as a reminder to use trash tags. There were three Haulers ticketed one or more times by the Solid Waste Enforcement Officer for failure to adhere to the County's Trash Tag Law. All challenges in Court were decided in favor of the County.

A total of over \$4500 in fees has been recovered as a result of civil penalties issued for illegal dumping, clean up recovery costs, and uncovered load surcharges. The County Court also issued fines for violation of the Trash Tag Law.

Public Information and Customer Service

In 2005 the Solid Waste Management Division continued to emphasize public relations with face-to-face personal contacts and education. We attended several local events, such as the Cornell Cooperative Extension Compost Fair, the Annual Plant Sale at the Ithaca High School, the Sister to Sister event at the Women's Community Building, the Earth Day Celebration at the Farmer's Market, the Ithaca Festival Parade at Stewart Park, the Fall Apple Harvest Festival on the Commons, the Groton Old Home Days, the Museum of the Earth, the Grass Roots Festival in Trumansburg, the Master Composter Class at Cornell Cooperative Extension, and the Ithaca Youth Bureau Festival at Cass Park. Also given were several school presentations at Groton, Beverly J. Martin, Dryden, Freeville, South Hill, Northeast, and Montessori, as well as Longview tours and presentations for 4-H at Cornell. These efforts provided recycling and waste reduction awareness education. Also this year we had a large presence at local Summer Camps, such as the Sciencenter Summer Camp, the YMCA Summer Camp, the Cayuga Nature Summer Camp, and Dryden Summer Youth Camp, With such a strong effort the Solid Waste Division educated residents, students and senior citizens for a total of over 4,000 people.

The Tompkins County Solid Waste Management Division also addressed the needs and concerns of residents wanting recycling and compost bins, by going out into their towns, villages, etc. and having bins available to purchase and free brochures and handouts.



Earth Day-Farmer's Market

The 2005 America Recycles Day celebration was attended by hundreds of visitors and customers, with all programs represented at the event. Significant Elements, Babbages Basement, Southern Tier Aids Program, SPCA, WVBR, Teracycle, The Sciencenter, Master Composters from Cornell Cooperative Extension, Sustainable Tompkins, Significant Elements, Museum of the Earth, Friends of the Library, Computer All Stars, Compost Theatre, The Recycling Dancers, Superior Disposal, Eco Players from Cornell, Southern Tier Clean-topia, Positive News, Farmers Market, React Electronics, Lynn Leopold with reuse projects, EMC, Diaper Duty, Cornell and Ithaca College student volunteers helping out with wrapping paper and envelope making and of course the Super Heroes (Reduce, Reuse and Recycle) were there, handing out pencils made from blue jeans and old money and tattoos of themselves to all the young visitors.

The continuation of our education and outreach efforts an environmental lesson plans workbook and training for local educational institutions will take place in September 2006.

The Solid Waste Management Division staff worked on the ReBusiness pilot program focused on helping local businesses and schools set up a successful recycling program within their organization and to show them incentives on recycling and waste reduction.



Groton Elementary School on a Tour of the Recycling and Solid Waste Center



YMCA Summer Camp



South Hill Elementary Tour