

concerning legislation and programs relative to town and regional planning including meetings on issues of relevance to the Town sponsored by Metro West. The Planning Board recommends that the Town renew its membership in this regional planning association in order to better keep up to date on state legislation and programs affecting our communities and to participate collectively with neighboring communities in promoting our interests and needs before State agencies.

Planning Staff

The Planning staff consists of a part-time secretary/technical assistant, a full-time planner and a full-time planning director. The Design Review Board, Historic District Commission, Housing Development Corporation and Fair Housing Committee receive professional and staff assistance from the Planning Department. All building projects involving an exterior change are reviewed except single and two-family projects outside the historic district. All expenses of these boards and all expenses associated with these reviews are absorbed within the Planning Board budget.

Web Site

The Planning Board maintains a web site at the following address: <http://www.wellesleyma.gov/planning> . This web site includes updated information on the regular activities and special projects of the Planning Department. To view the web site for the Comprehensive Plan Project go to planning site and click on Comprehensive Plan.

REPORT OF THE BOARD OF PUBLIC WORKS

The Board of Public Works oversees the Department of Public Works (DPW), which consists of the following programs: Engineering, Park & Highway, Recycling and Disposal, Management Services, Water and Sewer. All of these programs are funded from general tax revenues except for the Water Program and the Sewer Program which, as enterprise funds, are funded exclusively by users fees.

In addition to the activities outlined in the reports of the individual DPW Divisions, some items of note this past year include surviving the fourth snowiest winter on record, receiving the highest revenue to date from the sale of recyclables, and the completion of the water main replacement on Great Plain Avenue. Also of note is the defeat of the 'basket' override request, which impacted the DPW by the elimination of a full time position at the Recycling and Disposal Facility, resulting in the RDF closing at noon three days each week, closing on Sundays, and the elimination of the Reusables Area. The Reusables Area was subsequently reopened through the efforts of volunteers.

In March 2005, William E. Charlton was re-elected to another three-year term on the Board of Public Works. In June 2005, Michael D. Humphrys was appointed to the Board of Public Works to fill, until the next Town election, the term vacated by Owen H. Dugan who was elected to the Board of Selectmen. Also in June 2005, William Charlton was elected Chairman, Michael Humphrys Vice Chairman and David Donohue Secretary of the Board of Public Works. These are elected positions, with the incumbents serving three-year terms.

DPW Mission: The Town of Wellesley Department of Public Works is dedicated to providing in a cost effective manner the essential, emergency and maintenance services, together with information and planning support, to protect and improve the Town's assets and infrastructure for the safety and well-being of the community.

DPW Vision: To be recognized by the community for continuous improvements and quality maintenance by developing teamwork through good support and training.

DPW Major Goals:

- To Provide Essential Services
- To Provide Emergency Services
- To Provide Maintenance Services
- To Provide Information and Planning Support
- To Protect and Improve the Town's Assets and Infrastructure

The following services are provided to the Town in a cost effective, accountable, responsive and efficient manner, in accordance with the DPW mission, generally accepted municipal standards and with a dedication to excellence:

- engineering and technical services required to plan, coordinate, develop, construct, operate and maintain Town Facilities;
- highway services required to construct, operate and maintain roads and drainage systems;
- services and facilities required to preserve, develop, operate and maintain public parks, trees and open space, according to general policies established by the Natural Resources Commissioners, as well as recreation areas;
- services and facilities required to operate and maintain a recycling, refuse management, and transfer facility;
- services and facilities required to construct, operate and maintain the Town's water and sewer systems, and to collect fees from users sufficient to recover costs and maintain a prudent balance sheet; and
- management services required to plan, organize, monitor and control the operations of the various programs identified above in a prudent financial manner and subject to identified performance objectives.

Engineering Division

The Engineering Division provides the Town of Wellesley with the highest level of professional engineering services. It is involved with almost every engineering-related task in the Town: preparation of engineering related reports and technical memoranda, preparation of detailed design plans and cost estimates, deed information, computer-aided design and drafting, Geographic Information System (GIS) implementation and maintenance, surveying, complete contract administration and project representation services for construction projects, and many other services. The Engineering Division uses state of the art technologies to perform these tasks, and to adjust to the ever-changing needs and priorities of the Department of Public Works and the Town of Wellesley. The following are highlights of the Division's work during fiscal year 2005.

Reconstruction of Washington Street (Wiswall Circle to Service Drive)

During FY05, the Engineering Division coordinated completion of the design of the reconstruction of Washington Street from Wiswall Circle to Service Drive. Plans and specifications were prepared by the Town's Consulting Engineer, Greenman-Pedersen, Inc. The work involves the complete reconstruction of the roadway including sidewalks on both sides of the street, removal and resetting of existing granite curb or installing new granite curbing, existing drainage system improvements, installation of ornamental street lights, traffic signal upgrade at the Wellesley College Road intersection, improved signage and new pavement markings.

Bids were received for the project in January 2005. Paolini Corporation of Newton, MA, was the low bidder and was subsequently awarded the contract to perform the work. The completion date for the project is April 1, 2006.

The Engineering Division is providing complete project management services during construction. The project is funded utilizing the Town's available Chapter 90 road construction funds.

DPW Building Addition Project

During FY05, the Department of Public Works began detailed planning for a proposed building addition project to house the Engineering Division, Water and Sewer Division, Management Services Division and the Director's Office. The Engineering Division took the lead in this project in coordinating the appropriate consulting services and preparing various preliminary layout plans for the proposed building. The proposed building addition would be constructed adjacent to the existing Highway/Park Garage Building in the lower DPW yard. The building addition is required to provide adequate office and garage space for the various divisions which will need to vacate the existing DPW/MLP administration building when the MLP moves into a new building it is currently planning.

Space requirements were determined with the assistance of an architectural consultant, who also worked with the Department in developing various site layouts for the proposed facility. The Division also contacted prospective vendors regarding the possible construction of the new facility using pre-engineered modular construction. As FY05 concluded, work continued on the development of cost estimates and preliminary layouts of both the office space and garage that will house Water and Sewer Division vehicles and equipment and Engineering Division vehicles.

Linden Street Development Project

During FY05, the Engineering Division played a key role in the Town Development Review Team (TDRT) responsible for negotiating a development agreement with Eastern Development Company. Eastern Development is proposing to develop the 118-acre site that comprises the former F. Diehl and Son property located on both sides of Linden Street, between Hilltop Road and Everett Street. The proposed project will include relocating the existing Roche Brothers Supermarket to a new 50,000 square foot site on the north side of Linden Street, and an overall redevelopment of the area.

The Division's involvement consisted of a preliminary review of stormwater drainage issues relating to the existing culvert and the proposed relocated culvert that runs through the property, the impact of the proposed project on the off site infrastructure, which will be discussed further during the Planning Board's Project of Significant Impact (PSI) process, and the project's traffic related issues. This work culminated with a Special Town Meeting in June 2005, which voted changes to the Zoning Bylaw allowing the project to proceed. The PSI submittal for the project is expected to take place in the fall of 2005.

Linden Street Reconstruction Project

The 1999 Annual Town Meeting approved funding for the design of improvements to the Linden Street corridor. The project locus is from Rockland Street to Weston Road. Improvements consist of cold planning the roadway, reconstruction of the sidewalks to provide a continuous sidewalk on at least one side of the street for the entire corridor length, installation of ornamental streetlights and traffic signals, and appurtenances as required. This project utilizes in part some of the recommendations of the Linden Street Planning Study and forums conducted by the Wellesley Planning Board during FY03.

With the development of the former Diehl's site by Eastern Development, as part of the negotiated development agreement with the Town, Eastern Development will construct the Linden Street improvements within their project area and has agreed to pay the Town for the cost to implement the remainder of the Linden Street Reconstruction Project. The estimated cost of the project is \$2,000,000. It is expected to begin in 2006.

Glen Road Reconstruction Project

The Engineering Division completed its design work for the Glen Road Reconstruction Project. Glen Road is a major east/west route through Wellesley. As a result of numerous resurfacings of the roadway, the curb reveal on both sides of the street has been virtually eliminated. At many locations, the roadway and the sidewalk are at the same elevation, creating safety issues and concerns for pedestrians. The condition of the sidewalk at many locations is also poor. Safety and drainage are important considerations. From a technical engineering perspective, the sidewalk and curbing issues are best addressed at the same time the roadway reconstruction is performed. Additions to the stormwater collection system are also best implemented at that time.

This project consists of cold planning the roadway and adding catch basins and stormwater system improvements where needed. In addition, due to high traffic volumes, particularly during peak commuter hours, granite curbing will be installed from Washington Street to the railroad bridge. From the railroad bridge to the Weston Town line, bituminous concrete Cape Cod berm is proposed. As a part of an earlier project, sidewalks were constructed from the railroad bridge to the Weston town line on the north side of Glen Road. Construction is scheduled to begin in the 2006. It is anticipated that the project can be completed in one construction season.

Recycling and Disposal Facility Relocation of the Residential Metals and Tires Drop-Off Area Project

During FY05, the Engineering Division performed construction management services for the

relocation of the Residential Metals and Tires Drop-Off Area Project at the Town's Recycling and Disposal Facility (RDF). The project included relocating the residential drop-off area for light iron, miscellaneous aluminum, appliances and tires to a more convenient and user-friendly location at the RDF. This should result in increased recovery weights for these recycled products and reduce handling and freight costs that are incurred by the Town of Wellesley.

A cement concrete block wall was installed to allow a depressed area for open-top containers and a freight trailer to be located, into which residents can place the recycled products. By having the containers and freight trailer at a lower elevation, it will be easier to load the recycled products. The Department of Public Works performed the work with their own work forces. Work started on the project in FY05 and is scheduled to be completed in FY06.

RDF & Great Plain Avenue Water Main Installation Project

During FY05, construction was completed for the RDF and Great Plain Avenue Water Main Installation Project. The project consisted of replacing an existing six-inch water main located in Great Plain Avenue with a new eight-inch water main and installing a new eight-inch water main, to be located in the access drive from Great Plain Avenue to the RDF. The work also consisted of the installation of approximately 3,870 linear feet of temporary by pass water main and services, which permitted the maintenance of domestic and fire services at all times. Approximately 4,300 linear feet of eight-inch diameter cement lined ductile iron water pipe, 210 feet of six-inch diameter cement lined ductile iron water pipe, 220 linear feet of house water service connection piping and 3,300 pounds of ductile iron pipe fittings were installed as part of the project.

The bid opening for this project was held on May 27, 2004. The Town received five bids. Gravity Construction of West Walpole, Massachusetts was awarded the project as the lowest responsible and eligible bidder with a bid in the amount of \$511,375.25. The project was constructed during early FY05 and was completed on time and within the project budget.

Stormwater Management Program

During FY05, the Engineering Division continued the implementation of the Town's stormwater management program. In September 2003, the Town was issued its General Permit for the discharge of stormwater to the waterways of the US. The 2004 Annual Town Meeting approved a change to the Town Bylaw that permitted the Board of Public Works to promulgate and implement Municipal Stormwater Drainage System Regulations that govern the use of the Town's stormwater drainage system. These regulations were implemented in January 2005.

In FY05, the Engineering Division continued its program of placing plastic information disks at selected catch basin inlets. The disks were installed as a public education tool to warn the public about dumping illegal material into the stormwater drainage system, the Town's brooks, streams, ponds and the Charles River.

As part of its stormwater management responsibilities, the Engineering Division prepared an annual report for submission to the US EPA in compliance with the Town's general permit under the Phase II NPDES regulations. This involves reporting on stormwater management activities performed over the past year and periodic revision to the Town's Notice of Intent, which serves as the basis for the Town's stormwater management program.

Infiltration/Inflow Reduction Program

During FY05, the Engineering Division provided project management and construction engineering services for the sewer rehabilitation project in the Wellesley Farms area. The project involves performing the cleaning and television inspection of approximately 25,260 linear feet of sewer laterals, testing of 6,046 pipe joints and the sealing of 1,223 pipe joints. The contractor for the project was National Water Main Cleaning Co. of Hyde Park, Massachusetts.

The purpose of the project is to remove as much extraneous water (infiltration/inflow) from the sanitary sewer system in the Wellesley Farms area as possible. Infiltration is water associated with groundwater, while inflow is water associated with storm events. Water from these sources takes up capacity that might normally be allotted to sewage flow, with the effect of raising the Town's annual MWRA sewer assessment.

The total project cost was approximately \$202,000.

Utility Permit Program

The Engineering Division manages the Town's Street Occupancy Permit Program. This program regulates all utility and excavation work within the public way in accordance with the Rules and Specifications Regulating Street Excavations, Obstructions and Driveway Aprons, promulgated by the Board of Public Works. The comparative program statistics for FY03, FY04 and FY05 are:

	<u>FY 03</u>	<u>FY04</u>	<u>FY05</u>
Number of permits issued:	678	799	850
Number of permits completed as of June 30 th	466	299	501
Number of outstanding permits	212	500	349

The majority of outstanding permits are typically telephone or water line repairs that have not yet been permanently patched. Verizon routinely waits a year after excavation to permanently patch the street openings it makes.

Park & Highway Division **Park & Tree**

The Park & Tree Division of the Public Works Department is responsible for the year-round maintenance of the Town's parks, athletic fields, outdoor recreation facilities, conservation lands and public shade trees. Listed below is a breakdown of the town properties routinely maintained by the Division.

- The grounds of Wellesley's two branch Libraries, Town Hall and Police Station
- The Recreation Department's Moses Pond Beach Facility
- 9 Playgrounds and Recreation areas for all of Wellesley's Public Schools
- 13 Playing Field sites totaling 47 acres of the Natural Resource Commission and School Department properties.
- 4 Tennis Court Facilities (Hunnewell, Sprague, Schofield, Kelley) totaling 17 courts.
- 6 Conservation Reservations and the Wellesley Town Forest

- 10 Municipal Parking Lots of the Board of Selectmen
- 18 Parks and 5 Playgrounds of the Natural Resources Commission
- 70 Traffic Islands
- 3 Linear Parks (Caroline Path, Cochituate Path and Fuller Brook)
- 8 Ponds including annual mechanical harvesting of invasive weeds at Morses and Longfellow Ponds
- 3,150 Public Shade Trees and vegetation management along town roadways.

During the fiscal year **2005**, the Park & Tree Division also completed the following tasks and capital improvements:

- Installed a new swing set at the Hardy School Playground along with upgrading surfacing in playgrounds town wide.
- Renovated and installed new playground at the Hunnewell Field Tot Lot
- Completed renovation of Schofield School baseball field, soccer field and basketball court, along with the planting 8 new trees.
- Completed renovation of the Hunnewell J.V. Baseball infield and backstop area along with a new ADA pathway from Rice Street.
- Completed renovation that included an ADA pathway to a new playground structure, a new irrigation system and new sod at the upper and lower fields of Warren Park. The project was funded in cooperation with the Natural Resource Commission, Friends of Warren Park and the Community Preservation Act Committee.
- Planted and maintained 98 new public shade trees town-wide with funding provided by the Natural Resources Commission.
- Completed phase II of Landscape Master Plan that included new lighting for the Clock Tower Building at Elm Park. The work was funded in cooperation with the Wellesley Rotary Club, the Natural Resource Commission, and the Community Preservation Act Committee.
- Completed landscape improvements to the Great Plain Avenue Traffic Islands.
- In cooperation with the Town's Municipal Light Plant, upgraded the electrical utilities for the holiday lighting of the trees at Central and Church parks in Wellesley Square.
- In response to the West Nile Virus, assisted the Middlesex Mosquito Control and the Wellesley Heath Department with treating over 3,100 catch basins with larvicide to help reduce the mosquito population in the town.

Highway

The Highway Division is responsible for the maintenance and repair of all Town roads, street signs, sidewalks, and all surface and subsurface drainage systems. Maintenance includes the cleaning of streets, drains, catch basins, brooks, and culverts. The resurfacing program maintains the structure of streets through crack sealing and resurfacing. During the winter, roads and sidewalks are kept safe for travel through the winter maintenance program, which includes salting, sanding, plowing and snow removal. The Sign Shop maintains all of the street signs and parking meters through the replacement of worn or damaged signs and meters and installation of new street and traffic control signs and meters. Highway also provides a wide range of construction and maintenance services, including carpentry and masonry, to every Town department.

Bates School Sidewalks PSI Mitigation

The Highway Division constructed approximately 2,940 feet of new sidewalk on Pilgrim Road and Cleveland Road to complete the project.

New Street Sign Project

Phase Three of a program developed for the purpose of upgrading street name signs was completed. The Highway Meter and Sign Shop replaced approximately 225 street signs and posts.

Winter of 2004-2005

The winter of 2004-2005 had more precipitation than normal. Temperatures varied throughout the winter; with January temperature recordings reaching historical lows. November had one storm, December had four storms, January had eleven storms, February had six storms and March had four storms.

The total snow accumulation measured at the Highway Division facility for the winter of 2004-2005 was 92.73 inches. The DPW responded to a total of 26 storms. Nineteen of the 26 storms required the attention of snowplowing crews. The remainder of the storms were treated with a combination of sand, salt and calcium. Responding to storms resulted in the use of 523.70 tons of sand, 4,319.85 tons of salt, and 19,291 gallons of liquid calcium chloride. Snow removal operations were carried out on two occasions.

Monthly Snow Accumulation

Winter 2004-2005

November	4.5''	February	19.63''
December	11''	March	12.25''
January	45.35''	April	Trace

FY05 Street Resurfacing

The following streets were resurfaced in fiscal year 2005: Maple Road, Arden Road, Ayer Road, Boulder Brook Road, Duxbury Road, Eaton Court, Elmwood Road, Framar Road, Garden Road, Haven Road, Lathrop Road, Lexington Road, Livingston Road, Oakdale Avenue, Park Avenue, Pilgrim Road, Putney Road, Smith Road, Standish Road, Sterling Road, Sunnyside Road, Temple Road, Westwood Road, Winding River Circle, and Winding River Road.

Other FY05 Highway Activities

The Highway Division assisted the Wellesley Celebration Committee and the Wellesley Police with the setup of crowd control, traffic control and litter control devices for the fireworks display at Hunnewell Field and for July Jubilation.

Recycling and Disposal Facility Revenue Enhancement Project

The Highway Division broke ground on a new Metal Recycling Area in early January. The project involved removing approximately 1200 cubic yards of material and the placement of 248 concrete blocks. It is planned that the project will be completed in FY06 after the installation of concrete sidewalks and container pads, and asphalt parking and loading areas.

HIGHWAY

<u>Comparative Statistics</u>	<i>FY04</i>	<i>FY05</i>
<u>Street Resurfacing & Cracksealing</u>		
Bituminous concrete resurfacing (public ways)	4.31mi.	3.82 mi.
Bituminous concrete resurfacing (private ways)	--	--
Streets cracksealed	5.11 mi	4.22mi.
<u>Curbing</u>		
Granite curbing	382 lf	180 lf
Bituminous concrete curbing	3,305 lf	480 lf
Sidewalks resurfaced	1,356 lf	1,600 lf
New sidewalk construction	4,422 lf	3,140 lf
<u>Guardrail fencing</u>		
Highway steel guardrail fencing installed	--	--
<u>Signs & Markings (replaced, renewed or new)</u>		
Street signs	174	225
Regulatory signs	143	100
Sign Posts	251	290
<u>Parking Meters</u>		
Maintain Meters – replace batteries, etc	2,010	740
New Cale units installed	1	
<u>Winter Maintenance</u>		
Snow storms or severe weather conditions responded by DPW	13	27
Total snowfall, inches	37	93
Salt used for ice control on roads and walks, tons	2,430	4,320
Calcium chloride for ice control on roads, gallons	12,100	19,291
Sand used for ice control on roads and walks, tons	200	524
Sidewalks plowed each storm, miles	56	56
<u>Highway Maintenance Inventory</u>		
Streets, miles	110	110
Sidewalk, miles	118	118
Curbing, miles	78	78
Fencing, miles	6	6
Culverts, miles	75	75

Brooks & streams, miles	15	15
Catch basins, each	3,650	3,650

Recycling and Disposal Division

The Recycling and Disposal Facility (RDF) is located at 169 Great Plain Avenue. During FY05, this 88-acre facility was open 7 days a week: Monday through Friday, 7 a.m. to 3:45 p.m., Saturday, 7 a.m. to 4:45 p.m., and Sunday, 11 a.m. to 3 p.m. Due to budget cuts, as of July 1, 2005 the hours of operation changed to: Monday through Wednesday, 7 a.m. to 12 noon., Thursday and Friday, 7 a.m. to 3:45 p.m., and Saturday, 7 a.m. to 4:45 p.m. The RDF is closed on Sundays.

The solid waste management strategy utilized by the RDF is the "3R's" diversion method. Waste that cannot be diverted from the waste stream via **Reduction, Reuse, or Recycling** is transported to a State-approved disposal facility. All materials are processed in an environmentally, operationally and financially sound method.

Reduction:

Source reduction is the first step in managing the Town's waste. It is a simple concept to describe but difficult to quantify the results. To assist, the Massachusetts' Department of Environmental Protection provided the RDF with "Junk Mail Reduction Kits", which includes information on how to remove oneself from mailing lists and a "Non-Toxic Products" brochure with a listing of environmentally friendly products that can be used at home.

Reuse:

Reuse is the next component in the Town's solid waste management strategy and the RDF has several areas for residents to take advantage of items that others no longer need.

The most visible and popular of these areas is the Reusables Area (Take-It-Or-Leave-It). Last year several changes and improvements were made to increase the safety and convenience of all users. New signs were installed emphasizing unacceptable items, the rules and regulations and parking restrictions, and perimeter barriers helped keep items out of the flow of traffic. Due to budget cuts, the Reusable Area was closed as of July 1, 2005. Volunteers immediately began steps to restore this service and through their efforts, successfully reopened the Reusable Area in September 2005.

The Book Exchange is also a very popular area in the facility. It is not uncommon to see residents relaxing and enjoying a good book, or just browsing through the many different types of books. Surplus books that are not reused are shipped to Third World countries for libraries and schools. The Town's benefit is the avoided disposal costs (estimated at \$5500 a year) and the fact that we are doing our part in helping to improve the world's literacy rate. The RDF has taken a leading role with other Massachusetts communities by assisting and helping to coordinate shipments.

The Earth Products Area gives residents another opportunity to take something back home with them. Brush, leaves and grass clippings are dropped off and processed on site. In

FY06 the RDF operation will introduce a new trommel screener. This will help develop a higher quality product that can then be sold in large quantities. This also helps with the Town's waste diversion rate. When available, finished compost is offered by the shovelful to Wellesley residents at no charge.

The RDF continues to work with the State's Executive Office of Health and Human Services' Soldier's Home in Chelsea Massachusetts. They are in dire need of used medical equipment for needy veterans. In FY05 a total of 32 crutches and canes were received and donated to this worthy cause. Wheelchairs, walkers, crutches and canes will also be collected at a new permanent collection area that will be ready in the fall of 2006.

Recycling:

Recycling eliminates the financial and environmental costs of landfilling waste and can generate revenues that go back into the General Fund. A major component to the success of the RDF operation is the Lindemann Baler. This is a high-density baler that produces an export quality bale, thus enabling the RDF to market to upper level worldwide markets that are typically accessible only to high volume private companies. In order to achieve the highest economic benefit for the Town, every pound of recyclable is inspected and sorted on a quality control conveyor. Contaminates are removed to ensure mill acceptance at a premium grade classification. The most important aspect of our marketing strategy is to eliminate the profit-making middle companies or brokers. This enhances the Town's position to capitalize on the constant changing market conditions to maximize revenue. Another benefit of this strategy is that it allows us to have more control over the operation, and allows us to develop long-term relations with mill buyers.

Recycling Revenue and Cost Avoidance:

For the second year in a row, recycling sales revenue is the best year ever. The following is compilation of all relative recycling statistics:

Product Sales Revenue:	\$ 340,040
Compost Sales:	140
Appliance Fees:	19,630
Commercial Yard Waste Fees*:	32,942
Cost Avoidance Benefits**:	<u>959,030</u>
Total Recycling Benefit:	\$1,351,782

*Fees collected from commercial vendors for the disposal of leaves, grass clippings, brush and woodchips that ultimately decomposes and is moved off site as compost.
**Avoided landfill disposal costs by diverting material out of the waste stream.

Municipal Solid Waste:

In FY05, a total of 10,654 tons of municipal solid waste (MSW) was processed and hauled off-site to a disposal facility in Seneca Falls New York. The DPW is currently in the third year of a ten-year contract with Seneca Meadows Incorporated for the disposal of solid waste.

The Department of Environmental Protection has delayed the mandatory separation of Construction and Demolition Material (C & D). The DPW has examined and will continue to examine all possible future C & D disposal options.

The Executive Office of Environmental Affairs (EOEA) and the Department of Environmental Protection (DEP) have issued a Solid Waste Master Plan, which describes strategies and policies for working toward the State's goals in the coming decade. These goals are to: 1) Reduce the quantity and toxicity of our waste to the irreducible minimum, leaving as little waste as possible to be disposed; 2) Dispose only residuals from recycling and other waste reduction efforts; and 3) Ensure that waste handling facilities are environmentally sound.

The DEP has expanded its regulatory requirements on all municipal and private waste disposal operations. We must inspect and conduct daily monitoring of all incoming commercial waste. The RDF has been visited by State Inspectors and it has been determined that the RDF is in compliance with all pertinent laws.

Fifteenth Annual Household Hazardous Products Collection Day:

A fundamental component in Wellesley's environmentally responsible approach to integrated solid waste management is the annual Household Hazardous Products Collection Day. This year the event was held on Sunday, May 1, 2005. A total of 459 residents participated in bringing in a total of 22.45 tons of hazardous material. All products were collected and removed from the RDF by licensed and trained technicians and chemists.

Fourth Annual Mercury Thermometer Exchange Day:

In conjunction with the Household Hazardous Waste Day, the RDF conducted its fourth mercury thermometer exchange. Residents were encouraged to bring in all their mercury thermometers. A total of 382 residents received an environmentally safe digital thermometer and 23 mercury thermometers were turned in. Mercury thermometers are the most significant source of mercury contamination found in the household. For this reason, the RDF will conduct a thermometer swap during normal operating hours from Monday through Friday. The feedback from most residents is that they no longer have mercury thermometers in their homes.

New Initiatives

Step Up! You should be hearing a lot in the coming months about the new Step Up! recycling initiative. This is an effort to encourage **all** residents to increase their participation in waste reduction, regardless of where they are today, in terms of how much and what they recycle. Envision a staircase of recyclable materials: a non-recycler would be at the bottom step and veteran recyclers who recycle certain items occupy the next few steps. If the non-recycler started to recycle just paper, he would take a step up. If a resident who now only recycles paper started to also recycle bottles and cans, that would be a step up. The top step is community education and outreach. If every household took a step up and started to recycle one more product line, we would reach our overall goal of five percent more recycling over the next five years. That's only one percent a year, however in order to reach this aggressive goal, every household will need to step up his or her efforts. Every resident

can nudge us towards our goal by looking for one or two more items to recycle or remove from their trash. Recycling saves natural resources and makes the Town a lot of money.

Old Initiatives

The FY05 RDF budget was reduced by \$50,000 because of the trash disposal savings. In November 2003, the RDF opened up a new temporary transfer building for the loading of municipal solid waste. The old method (loading and hauling of 50-yard containers) was gradually phased out. The transition from the old method to the new method took place over several years with combinations of these two methods. The major operational change has proved to be more cost effective. The RDF now processes approximately 6.5 tons per hour, which is up from 2.5 tons per hour. This savings has enabled the RDF to absorb increases in the baling of additional business recycling products, increased hazardous waste handling, and expanded municipal recycling and trash routes.

RDF Comparative Statistics

<i>All figures in tons unless otherwise noted</i>	<i>N/A = Not Applicable</i>		
(A) Recyclables*	FY04	FY05	FY05 (Sales)
Newspaper	2382	2311	\$ 194,105
Cardboard	1120	1052	\$ 82,248
Glass: Clear	108	129	\$ 2,350
Brown	46	35	\$ 571
Green	165	176	N/A
Ferrous Metal	499	527	\$ 20,450
Aluminum Foil and Plates	3	4	\$ 438
Steel Cans	33	34	\$ 1,440
Refundable Containers	39	25	\$ 12,908
Plastics	84	81	\$ 24,818
Batteries (Automotive)	13	16	N/A
Waste Oil	17	17	N/A
Tires	30	13	N/A
Reusables	79	79	N/A
Textiles - Used Clothing	130	137	N/A
Paint	5	3	N/A
Hazardous Products	103	90	N/A
Books	59	44	N/A
Mobile Phones	293 units	999 units	N/A
Eye Glasses	596 units	991 units	N/A
Crutches & Canes	72 units	**32 units	N/A
Ink Jet Cartridges	54 units	64 units	\$ 712

Electronic Media	620 lbs	806 lbs	N/A
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Program Totals	FY04	FY05	FY05 (Sales)
Residential and Municipal Recycling	3,535	3,608	***\$340,040
Commercial Recycling	1,381	1,165	incl. in Residential
Construction and Demolition	N/A	N/A	N/A
(A) Total Recyclables*	4,916	4,773	***\$340,040

*Unsold tonnage in inventory is not included in the above figures, actual tonnage may be slightly higher

**Temporarily suspended the collection until a more suitable and permanent collection area was developed

*** Recycling Sales Revenue indicated the amount of all recycled products sold, however, some of these monies may be received in FY06

RDF Comparative Statistics continued

All figures in tons unless otherwise noted

(B) Transfer Haul	FY03	FY04	FY05
Commercial	1,253	1,799	1,743
Residential	8,339	8,224	8,581
Municipal	468	460	330
(B) Total Trash	10,060	10483	10,654

(C) Yard Waste	FY03	FY04	FY05
Commercial	469	549	558
Residential	9,660	8,310	7,151
Municipal	465	829	931
(C) Total Yard Waste	10,594	9,688	8,640

All Waste Materials	FY03	FY04	FY05
Total Weight (A+B+C)	25,570	25,087	24,067

Revenue and Cost Avoidance	FY03	FY04	FY05
Recycling Sales	\$ 280,505	\$ 321,606	\$ 340,040
Compost Sales	N/A	2,083	\$ 140
Appliance Fees	\$ 13,060	\$ 18,140	\$ 19,630
Earth Products Tipping Fees	\$ 24,340	\$ 30,401	\$ 32,942
Commercial MSW Tipping Fee	\$ 162,651	\$ 229,125	\$ 217,986
Cost Avoidance	\$ 1,179,699	\$ 1,041,655	\$ 959,030
Total Revenue and Cost Avoidance	\$ 1,660,255	\$ 1,643,010	\$ 1,569,768

Recycling Percentages

Residential and Commercial	FY03	FY04	FY05
Excluding yard waste	34.0%	31.9%	30.9%
Including yard waste	61.0%	58.0%	55.7%

Residential only	FY03	FY04	FY05
Excluding yard waste	32.4%	30.1%	29.6%
Including yard waste	62.1%	59%	55.6%

Per Capita Recycling

Residential only	FY03	FY04	FY05
Pounds Per Capita - excluding yard waste	301	266	271

Water & Sewer Division

The Water and Sewer Division is responsible for the operation and maintenance of the Town’s water and sanitary sewer systems. Described herein are the Division’s FY05 accomplishments.

Water Program

The Water Program is responsible for the operation and maintenance of the Town’s wells, pump stations, water treatment facilities, water distribution and storage systems. The program provides a potable and reliable water supply for its users and for fire protection. Water conservation and water resource protection are important components of the program.

Wellesley’s water system consists of seven wells, five well pump stations, three water treatment facilities, two booster pump stations, two storage facilities with a combined capacity of 6.3 million gallons, and 149 miles of distribution main. Wellesley’s water is supplied from local wells and from the Massachusetts Water Resources Authority (MWRA). All water users connected to the system are metered.

We are pleased to report that the water quality of our supplies was in compliance with the Federal Safe Drinking Water Act throughout FY05.

Water Treatment Facilities:

The seven local wells pump into one of three water treatment facilities, which provide for corrosion control, iron and manganese removal, and disinfection. In FY05 the Division contracted with Woodard & Curran Engineers to upgrade its Supervisory Control and Data Acquisition (SCADA) system. This project upgraded the software programming of the system, converted much of the communications to radio from telephone, and improved the filter backwashing process with the addition of a step function with variable speed pump drive capability at one of the facilities.

Water Distribution:

Our consultant, Amory Engineers, completed its Study of Distribution System Improvements to Benefit Water Quality. This study developed a hydraulic model of the distribution system. It recommended distribution system improvements including pipe looping, pipe replacements, pipe cleaning/lining; valving and circulation systems to improve water quality in our storage facilities; and hydrant additions and replacements. The total estimated improvement program construction cost is \$6,203,000. It serves as our twenty-year distribution system master plan.

Two recommendations from the Amory Study were completed in FY05. They were the installation of 1,800 feet of 8-inch water main between the RDF (Recycling and Disposal Facility) and the intersection of Great Plain Avenue, and the replacement of 100-year old 6-inch main with an additional 2,420 feet of 8-inch main on Great Plain Avenue from near the town line to Brook Street. These two projects were constructed under contract with Gravity Construction, Inc. of Walpole, MA for a combined total cost of \$494,000.

Also accomplished in FY05 was the implementation of a unidirectional hydrant-flushing program that was conducted in October of 2004 and May of 2005. This program included the operation of nearly 250 gate valves and 150 hydrants within the larger mains of the distribution system. The intent of the program is to create flushing velocities up to 5 feet per second, which scour the pipe interiors to remove scale.

Water Supply Protection:

We continue to monitor the contaminant plume of trichloroethylene in Needham. The Massachusetts Department of Environmental Protection (DEP) is overseeing the cleanup of this contamination including their monitoring of the groundwater treatment system at Central Avenue in Needham. Throughout FY05 the Division continued monitoring observation wells in Rosemary Meadow and the Wellesley Avenue and Coughlin production wells as per our Management Action Plan. Throughout FY05 our monitoring showed no detection of plume contaminants.

Water Conservation:

Last year our consultant, Weston and Sampson Engineers, completed a Water Supply/Demand Management Study. This Study developed a Water Demand Management Bylaw, which was promulgated at Wellesley's 2003 Annual Town Meeting, as Article 49.12b of the Town's Bylaws. This bylaw grants police enforcement powers for the restriction of certain outdoor water uses during emergency conditions. The Study's Water Demand Management Plan also contains actions to improve our supply potential, water loss control, and demand management tools, which will avoid emergency conditions. The elements of water loss control are leak detection surveying and metering. The demand management tools include: alternate day outdoor water use restrictions; restrictions on the methods (e.g. handheld vs. automatic) of outdoor water use; and use of bans on car washing, filling swimming pools, and up to a total ban on outdoor use. The severity of these restrictions is based on five water conservation statuses (i.e. normal, advisory, watch, warning, and emergency).

Typically hot, dry summer weather causes the water demand to double due to lawn irrigation. Our public awareness program included the distribution of complimentary rain/sprinkler gauges to encourage less frequent lawn irrigation and weekly advertisements in the Wellesley Townsman newspaper, which gives notice of our current water conservation status. In FY05 weekly notices were printed in the Townsman from June to September to alert residents of the current conservation status. The highest status reached during the year was WATCH.

Our water conservation program is encouraging prudent lawn water practices. We continue to distribute complimentary rain/sprinkler gauges, in order to encourage no more than an inch of water (combined rain and sprinkler) on the lawn per week.

The peak day water pumpage for FY05 was 5.05 million gallons. The peak month pumpage was 119.5 million gallons. The total water pumped for FY05 was 1,052 million gallons. Of this total water pumped, 83 % came from local wells and 17 % from the MWRA.

Sewer Program

The Sewer Program is responsible for the operation and maintenance of Wellesley’s sanitary sewer system, which includes 134 miles of collection lines and twenty-two lift stations. Sewage is delivered into the MWRA’s regional sewerage collection system and is treated at the MWRA Wastewater Treatment Facilities at Deer Island near Boston Harbor.

MWRA Sewer Metering Program

A large portion of Wellesley’s MWRA sewer assessment is based on the metered wastewater flows leaving the Town and entering the MWRA system. These measured flows are reported on a calendar basis, and are used to formulate the following fiscal year’s assessment. The following is a comparison of the three most recent calendar-year wastewater flow statistics:

Calendar Year	<u>MWRA Wastewater Flow Measurements</u>	
	Ave. Daily, MGD	Peak Monthly, MGD
2003	4.84 (1.35%)	7.73 (1.54%)
2004	4.92 (1.34%)	6.46 (1.44%)

The percentage of Wellesley’s contribution to the total MWRA system flow is noted within the parentheses.

Sewer Monitoring and Rehabilitation:

A significant portion of Wellesley’s wastewater flow (and therefore, its MWRA sewer assessment) is the result of groundwater infiltrating the sewer mains. Since FY00 the Division has carried out continuous sewer flow monitoring in three geologically similar areas in the north central area of town (the up-gradient tributary areas of the Cliff, Lowell and Hundreds neighborhoods) that are particularly impacted by heavy rainfall. This monitoring developed base conditions that will allow us to evaluate the effectiveness of pipe rehabilitation on the public sewer.

In FY05 we contracted with National Water Main Company of Hyde Park, MA to conduct a ten-mile television inspection survey and about five miles of sewer system rehabilitation, which includes joint testing and sealing and manhole sealing. The cost of this contract is \$275,000. The Sewer Division's long-term plan is to inspect and rehabilitate five miles of sewer main per year for the next several years.

Sewer Lift Station Master Plan:

During FY03 our consultant, Weston & Sampson Engineers, conducted a study of our nineteen neighborhood sewage lift stations. The purpose of this study was to formulate a plan for maintenance and replacement of these stations. The plan has recommended the replacement of eighteen stations over a span of twenty years, at a present day estimated cost of \$2,718,000. During FY04 we contracted with North Atlantic Construction of Gloucester, MA for the construction of a replacement pump station at Greylock Road. This work was completed in FY05 for \$148,341.

Water & Sewer Funds Audit Reports

The certified public accounting firm of Powers and Sullivan, L.L.P has prepared the FY2005 Financial Reports of the Water and Sewer Funds. The audited financial statements for the Water and Sewer Funds are included at the back of this Annual Town Report.

Division Statistics

	<u>FY04</u>	<u>FY05</u>
Number of Water Accounts	11,204	11,368
Water Pumped from Local Wells, million gallons	864.64	870.38
Water Pumped from MWRA, million gallons	121.54	182.04
Total Water Pumped, million gallons	986.18	1,052.42
Peak-to-Average Day Water Demand	1.84	1.76
Total Water Billed, million gallons	830.95	896.23
Unaccounted For Water	15.7%	14.8%
New Meters Installed	317	388
Hydrants Replaced	N/A	21
Number of Sewer Accounts	8,003	8,053
Number of House Services Rodded	369	340
Feet of Sewer Main Rodded/Flushed	234,670	295,470

**MetroWest Growth Management Committee
Wellesley Town Report**

MetroWest Growth Management Committee (MWGMC), which celebrated its 20th anniversary in January, includes leaders from Ashland, Framingham, Holliston, Marlborough, Natick, Southborough, Sudbury, Wayland, Weston and Wellesley. MWGMC helps local leaders meet significant growth management challenges by facilitating inter-local collaborative planning and problem solving to enhance the quality of life and economic competitiveness of the MetroWest region.