

Municipality/Organization: City of Waltham, MA

EPA NPDES Permit Number: MA041066

MaDEP Transmittal Number: W-041267

**Annual Report Number
& Reporting Period:** No. 6: May 08-April 09

NPDES PII Small MS4 General Permit Annual Report

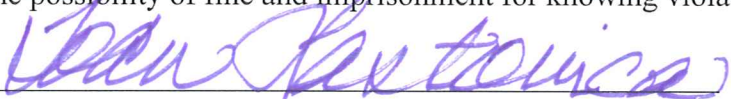
Part I. General Information

Contact Person: Joan Lastovica, P.E. City Engineer

Telephone #: 781-314-3830 Email: jlastovica@city.waltham.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Joan Lastovica, P.E.

Title: City Engineer

Date: 04/27/09

Signature: _____

Printed Name: _____

Title: _____

Date: _____

I acknowledge the Certification of the parties who have signed above.

Signature: Jeannette A. McCarthy

Printed Name: Ms. Jeannette A. McCarthy

Title: Mayor

Date: 4/28/09

Part II. Self-Assessment

The City of Waltham has completed the required self assessment and has determined that our municipality is in compliance with all permit conditions based on the following update.

Part II.C.2 The City of Waltham has been actively working with the City of Cambridge to identify stormwater discharges which are tributary to the Cambridge Reservoir. The Cambridge Water Board also works with the Waltham Conservation Commission and the City Engineer to review proposed development projects and ensure that adequate water quality BMP's are implemented.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1.1	Recycling Department Web Site	Recycling Coordinator	An Operational Web Site	Continue to maintain web site, including comprehensive listing for Charities donation and Freecycle membership instructions. Over 9,000 hits as of Feb 08. Outreach to all small businesses in Waltham, offering City recycling collection services at no charge. Have enlisted 136 businesses, to date. Outreach to multi-family developments without recycling. Established recycling collection in 7 developments, representing 1500 units. Recycling Department e-mails quarterly newsletter. Plan to include insert in City tax bills, disclosing costs of Solid Waste Management in City. (SWAC recommendation.)	Continue to update web site, which has over 18,000 hits. Department is referring residents to website for recycling and hazardous waste information, instead of doing the usual City-wide mailing. Paper brochures are being distributed to residents through municipal departments. The Department e-mails quarterly newsletter. Spanish literature is distributed through churches and Latino organizations.

Revised	Office Park Targeted Communication	CPW Director	Communications to Office Parks	
1.2				Complete the draft stormwater brochure and post it on website. Continue to maintain website. This brochure will include information for the construction industry, office parks and pet owners. A separate mailing to facility managers of commercial accounts will be made. The City will add links to the DEP and EPA websites to its CPW and Conservation Commission web pages.
Revised		City Engineer CPW Director Conservation Commission Environmental Committee		

1.3	NPDES Phase II Brochure	City Engineer	The City will use the periodic billing inserts to inform the residents of the location of the availability of comprehensive stormwater brochure on the website.	The Stormwater brochure is posted on the City website. The Engineering Dept website maintains links to the DEP and EPA. The brochure is also mailed to residential property owners in the Spring quarterly utility billing.	Update the website and the brochure to reflect the new NPDES Permit after its issuance by the EPA.
Revised		City Engineer, CPW Director, Conservation Commission, Environmental Specialist and Environmental Committee			
1.4	Watershed Signage	City Engineer	Install 10 Watershed signs for Cambridge Reservoir	Signs to be made, areas to be identified by Engineering. Additional areas for signage will be Identified. The Reservoir Manager has been requested to provide locations for signs	Ongoing
Revised		City Engineer Traffic Engineer			

**1a. Additions
Check Website**

	Recycling Department	Recycling Coordinator	The Department is developing recycling literature in Spanish.	The literature has been sent to the Parent Information Center. The literature was circulated to the Spanish community this permit year.	<p>Offer in-service education and talk to senior citizens retirement home.</p> <p>Recycling Coordinator was interviewed on Cable Access show regarding department programs.</p> <p>Donate compost bin to the McDevitt School for teacher to develop educational composting program.</p> <p>Provided outdoor recycling receptacles to the ball parks, to be managed by the teams.</p> <p>Offered extra recycling bins to residents, at no cost, promoting the use of a second paper bin to recycle more paper.</p> <p>Hosting Interns from Brandeis University and Gann Academy, in order to further our programs and provide students with environmental learning experience.</p>
	Recycling Department	Recycling Coordinator	Promote the sale of rain barrels to conserve rainwater.	<p>The sale was promoted through inserts in the water bills, cable television and newspaper announcements. Evaluate rain barrel program and repeat if it is successful.</p> <p>- Sold 87 rain barrels in 2007. Program will be repeated, 2008. Through MA DEP grant, will provide incentive with reduced price for first 25 buyers.</p> <p>- A new 22 gallon curbside recycling bin w/lid is being promoted to the public, on web site.</p>	<p>Conducting annual rain barrel sale, with discounted price from New England Rain Barrel. Will offer further discounts from MA DEP grant, as incentive.</p>

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
2.1 Revised	Earth Day Celebration	CPW Director/Mayor	Provide & staff a booth at the City's annual celebration. Organize and staff annual celebration.	Earth Day Celebration took place on 4/13/08 with Hardy Pond Clean up, as well as the clean up of the Paine Estate and Shades Pond.	An Earth Day Clean up of the Trapelo Road area was held on April 18, 2009 with Councilor George Darcy, the Eastview Park Neighborhood Association and the City.
2.2 Revised	Stream Clean-Up	CPW Director	Support existing cleanup program & identify new areas for future clean up efforts.	The scheduled Linden Street clean up for Beaver Brook was not completed due to limited access and safety issues. A clean up was conducted in a small section of the stream at 231 Lexington Street, behind the racquet ball club this March, 2009.	A project proposed for 2009-2010 is a clean up of the Woerd Avenue Riverwalk, from the boat ramp to the Waltham Watch Factory.
2.3 Revised	Catch Basin Stenciling	Assistant Supt. Of Streets & Forestry CPW Director	Stencil 80 CBs per year, install castings at 15 CBs per year	Several catch basin decal awareness projects were completed in 2008. On September 24, 2008 Brandeis University students, along with Waltham school children, the Afterschool YMCA program placed 165 decals on catch basins on the South side of Waltham and throughout the Brandeis campus (see enclosure). On September 21, 2008 and October 4-6, 2008, a group of Bentley College students placed a total of 375 decals on catch basins throughout the Bentley Campus and within two large sections of the city. See Attachments.	Will continue to partner with the colleges in the catch basin projects in the upcoming year.
Revised		GIS Coordinator		Stenciled CB locations for City Owned buildings and schools were added to the GIS. 110 Catch Basins were stenciled in 2007, 661 were stenciled in 2008.	

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2a. Additions

	Clear racks of debris	CPW	Nine racks maintained frequently as well as brooks and streams with and without racks for a total of 34 areas maintained Complete	The CPW clears racks and clears brooks frequently. Usually before or during heavy rainfall. Locations of Racks have been identified and added to the GIS.	Ongoing
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3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
3.1 Revised	Mapping	City Engineer	Completion of city-wide drainage GIS	The Engineering Dept and GIS Coordinator have completed GPS locating of all outfalls to the Charles River.	Continue to make updates as required by our new NPDES Permit and as resulting from our IDDE Project investigations. Privately owned drainage infrastructure features have been GPS located and are being added to the GIS.
3.2 Revised	Illicit Discharge Ordinance	City Engineer	Adoption of Ordinance.	The City Council and Mayor adopted the IDDE Ordinance – Ord. No. 30917 – on June 23, 2008. Fines and Penalties were passed with the Ordinance and are being utilized to obtain compliance to date.	Prepare Rules & Regulations for all phases of implementation and obtain formal City Council approval.

3.3	Illicit Discharge Detection Program	City Engineer	Inspect 40 or more outfalls per year	<p>The City contracted with an IDDE consultant to meet all requirements of the Administrative Order and all requirements of the new NPDES Permit, upon issuance by EPA. All 43 outfalls were inventoried and monitored during the year. Additionally, 17 storm drain inter-municipal cross connections (IMC) with Belmont, Lexington, Newton and Watertown were included. GPS locations, pipe material, size and depth of sediment were collected. Photos were taken at each outfall and IMC. Laboratory sampling was performed, during wet weather and dry weather conditions, at 43 outfalls and 15 inter-municipal connections. All samples were tested for surfactants, ammonia, E.Coli, and phosphorous per EPA recommendations. Some outfalls were dry during the fieldwork.</p>	Continue to monitor outfalls as required by our new NPDES permit, upon issuance by the EPA. Track televised storm drains in GIS.
Revised					

3a. Additions

All interior Drains	Engineering, Water & Sewer Division and Building Department	Dye Test Program is Scheduled for next 3 months.	<p>To date, 36 municipal buildings have been inspected; gas/oil separators are being installed Floor drains at 46 municipal buildings have been dye tested. Two buildings were found with floor drains connected to the storm drain system. Corrective actions by the Building Dept will be implemented. Specified drains have been blocked</p>	<p>Test floor drains in remaining 11 buildings. Begin dye testing all fixture units in municipal buildings built pre-1950. Correct all violations found.</p>
All Park Drains	CPW Assistant Director			<u>Complete</u>

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
4.1 Revised	Construction Site Runoff Control Ordinance	City Engineer	Enforce existing runoff BMP's	The City Council and Mayor adopted the Stormwater Management Ordinance – Ord. No. 30916 -- on June 23, 2008. All development and re-development sites greater than one acre are reviewed to ensure compliance with the Ordinance. Fines and Penalties were passed with the Ordinance and are being utilized to obtain compliance to date. Implemented	Continue review of stormwater management plans and calculations. Prepare Rules & Regulations for all phases of implementation and obtain formal City Council approval.
4.2 Revised	Conservation Commission Rules & Regulations	Conservation Commission	Continue to review projects and uphold the WPA, which includes the Rivers Act, and Massachusetts Stormwater Management Policy. Address stormwater management with special conditions added to every permitted project.	Implemented	Continue implementation.
4.3	Review Existing Runoff Control Ordinance	City Engineer	Review existing text, revise and implement as needed.	The City Council and Mayor adopted the Stormwater Management	Continue implementation of stormwater management plans and

Revised			Propose new ordinance provisions.		
4.4	Plan Review Process	City Engineer	Develop a checklist to be completed and submitted for a plan review process.	New checklist is complete.	Utilize checklist and update as required.
Revised					

4a. Additions

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5. Post-Construction Storm water Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
5.1 Revised	Plan Rules & Regulations	City Engineer	Continue to enforce the existing rules and regulations.	Existing rules and regulations are being enforced.	Continue to enforce existing rules and regulations.
5.2 Revised	Enhance Engineering Guidelines	City Engineer	Implementation of improved engineering design guidelines.	The City is reviewing the existing engineering design guidelines and will update for compliance with new ordinances.	Implement guidelines. Review and update to ensure compliance with new NPDES Permit after issuance by EPA.
5.3 Revised	BMP Monitoring & Maintenance Plan	City Engineer City Engineer GIS Specialist ConCom	Develop database for population by City. Develop database for BMP's and GIS map.	GIS mapping in development; Coordinating with Conservation commission to update GIS.	Continue updating

Revised						
Revised						
Revised						

5a. Additions

Storm water Ordinance	City Engineer	Propose new ordinance provisions	The City Council and Mayor adopted the Stormwater Management Ordinance – Ord. No. 30916 – on June 23, 2008. All development and re-development sites greater than one acre are reviewed to ensure compliance with the Ordinance. Fines and Penalties were passed with the Ordinance and are being utilized to obtain compliance to date.	Prepare Rules & Regulations for all phases of implementation and obtain formal City Council approval. Ensure that Regulations comply with all requirements of the new NPDES Permit after issuance by EPA.
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6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
6.1	Catch Basin Cleaning	City Engineer	Perform annual cleaning of catch basins.	The city of Waltham contracted National Water Main to perform catch basin cleaning this year to ensure compliance. NWM cleaned 1,767 catch basins; the Waltham Water Department cleaned 561 catch basins for a total of 2,322 catch basins cleaned.	Continue activity with city crews.
Revised					

6.2 Revised	Drain Cleaning	City Engineer	Address emerging issues throughout the year.	19,000 linear feet of drains were cleaned under contract.	1500 linear feet of new storm drains (15" to 42") and 1100 linear feet of new 12" catch basin laterals were constructed at the City Yard. Other locations totaled an additional 1800 linear feet of new storm drains (to replace existing). 4,400 LF total
6.3 Revised	Street Sweeping	Assistant Supt. Of Streets & Forestry	Sweep city streets at least once annually.	The City has swept major roads a minimum of three to four times, and two times for secondary roads. Downtown streets are swept every week (Main, Moody, Lexington, Bacon and School). The street sweeping schedule is on the city website with updates weekly for areas.	Continue implementation. Unchanged.
6.4 Revised	Recycling Program	Recycling Coordinator	Continue to publicize recycling activities.	08 – Continually updating website; MADEP- funded public space recycling containers will be installed at Waltham Parks.	The Recycling Department oversees Waltham's participation in the regional permanent Minuteman Hazardous Products Facility in Lexington, where residents and businesses may safely dispose/recycle hazardous products. Other programs include television and computer curbside pickup program. Department negotiated free pickup of working CRT's with changeover to digital TV. Operate mercury reduction program in municipal buildings and schools, diverting fluorescent light bulbs, etc
6.5 Revised	Watershed Maintenance Program	CPW/Conservation Commission City Engineer Conservation Commission	Implement pilot program on two streams.	Chester & West Chester Brook Cleaning project is complete. The City is in the process of identifying the next stream for cleaning.	City will perform ongoing maintenance of brooks and streams 1. Beaver Brook – Linden Street to Beaver Street 2. Trapelo Road to Beaver Street
Revised				Chester & West Chester Brook Phase I Stream Channel Improvements project is complete. Phase II is in planning process.	

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
6.6	Watershed Maintenance Program	CPW Director	Perform Annual Weed Harvesting	The Hardy Pond Association in partnership with the City of Waltham has been harvesting water chestnuts for the past six years. The annual weed harvesting in Hardy Pond improves water quality and aquatic life. Contract awarded for FY2009.	Ongoing annually.
Revised					
6.7	BMP maintenance	Engineering	Annual cleaning of sediment and debris from particle separators Assess City Yard drainage and implement measures to improve stormwater discharges	The City has completed cleaning of the 10 particle separators located near Hardy Pond and various public schools.	Ongoing annually
6.8	City Yard Drainage Study and Improvements	City Engineer, CPW Director, Environmental Specialist & Environment Committee		Storm water improvements at the City Yard are approximately 70% complete with the construction of new drainage lines, installation of new catch basins equipped with sumps and hoods and construction of a new sand shed. Pollution Prevention Plan (P2) and existing city yard maintenance continues to be implemented.	The project is scheduled to be completed during 2009 with the addition of pre-wash bay on the existing wash bay and construction of new materials management area.
Revised		City Engineer is available for consultation if Qs.			

6.9	Pollution Prevention & Good Housekeeping in Municipal Operations	Recycling Coordinator	New initiative to reduce idling of vehicles in the City to reduce air pollution.	<p>The Recycling Department will publish and distribute an Idling-Reduction brochure to Waltham residents.</p> <p>2008 – Conducting Idling Reduction Campaign in City schools; street signs posted at schools bus and parent pick-up areas at Waltham Schools.</p> <p>Educational brochure will be mailed City-wide (together with the Annual Recycling and Hazardous Waste Brochures). Other informational flyers will be distributed by parent volunteers at parent-pick-up areas.</p>	MA DEP awarded a second Idling Reduction Tool Kit, including street signs, which have been approved for posting at Prospect Hill Park, where there is excessive idling.
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Additions

Recycling
Coordinator

Supporting decision of Mayor/City Council for Waltham to become a *City for Climate Protection*, secured City membership in ICLEI, an international energy efficiency and conservation organization. Obtained grant from the Genzyme Corporation to hire a Brandeis student, who under the supervision of his professor, conducted a city-wide inventory of energy use and greenhouse gas emissions, using ICLEI software tool as a guide. The Inventory included all sectors: commercial, municipal, residential, transportation, Brandeis University and Bentley College.

Together with the Mayor and Waltham energy activist volunteers, developing the Committee for Energy Efficiency and Climate Action in Waltham (CEECAW) to develop a Waltham Energy Action Plan.

Conducted a Home Energy Audit Program for 25 Waltham Homeowners in collaboration with the City of Newton's Green Decade Coalition. Using blower door technology and infrared cameras, energy leaks were detected and subsequently sealed. Program evaluation – ongoing tracking participants' utility bills.

Secured the ongoing service of a Brandeis student of energy efficiency for CEECAW for the duration of the 2009-2010.

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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>> N/A

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
Revised					
Revised					

7a. Additions

7b. WLA Assessment

N/A

Part IV. Summary of Information Collected and Analyzed

Historically catch basins were cleaned approximately once every two years. The City plans to continue with this schedule. We are generating approximately 1,500 hundred tons per year of catch basin cleanings assuming the above schedule. The City of Waltham has a stormwater-sampling program. There were approximately 140 stormwater samples drawn and laboratory analyzed during the time period covered by this report.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	DNA
GIS		Yes

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	Approx 50%
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Yes
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> ▪ days sponsored ▪ community participation ▪ material collected – Tanning Salon Bulbs; residential thermostats, CRT’s. ▪ Minuteman Regional Hazardous Products Facility – mercury-bearing products, paint cleaners, ▪ Lawn & garden products, automotive products, etc. 	(#) (%) (tons or gal)	8 days per yr 1.6 % of population *
School curricula implemented	(y/n)	No

* Several communities participated and quantities collected are not broken down. Waltham had 239 cars participate.

*The Science Department under the Waltham Public School's curriculum on storm water, has scheduled labeling of approximately ten Catch Basins at each of the new elementary school properties at the Whittemore Elementary School and the Fitzgerald Elementary School. The labeling with decals will be done by the elementary school students under the supervision of the Science Department. The project is scheduled for June 10, 2009 (rain date June 17, 2009). A similar labeling project was completed in 2008 on Thursday, April 24, 2008.

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination	X	X		
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management	X			

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	43
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	N/A
▪ CADD	(%)	N/A
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	

<p>Illicit connections removed</p> <p>Candace – 5</p> <p>During construction of the Warrendale Project, collapsed sewer and drain lines were discovered and replaced, removing the direct discharge of contamination during storm events, from the neighborhood, into the Beaver Brook. Quantities have not been calculated.</p>	(#) (est. gpd)	
% of population on sewer	(%)	99.9%
% of population on septic systems	(%)	<1%

Construction

Number of construction starts (>1-acre) 175 Wyman St., 43 Foundry Ave., 35 Hickory Dr., Watch Factory	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

Post-Development Storm water Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	Unk.

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	Approx. 2,110
Storm drain cleaned	(LF or mi.)	18,979.2 LF
Qty. of screenings/debris removed from storm drain infrastructure	(lbs. or tons)	1,500 tons
Disposal or use of screenings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	\$40,000

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	>1 (monthly)
Qty. of sand/debris collected by sweeping	(lbs. or tons)	1500CY
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Cost of sweepings disposal	(\$)	\$29,000
Vacuum street sweepers purchased/leased	(#)	2
Vacuum street sweepers specified in contracts	(y/n)	0

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(Lbs. or %)	0
▪ Herbicides	(Lbs. or %)	100%
▪ Pesticides	(Lbs. or %)	100%

Anti-/De-Icing products and ratios	% NaCl	98
	% CaCl ₂	2
	% MgCl ₂	0
	% CMA	0
	% K _{ac}	0
	% KCl	0
	% Sand	100
Typical mix of 30% salt and 70% sand used predominantly.		
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(Lbs. or %)	0%
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction- New Sand Shed was constructed in 2008.	(y/n)	Y

RECEIVED

APR 13 2009

CATCH Basins Stenciling Attachment (2.3)

Done by Brandies Students 9/24/08

<u>STREET</u>	<u>CATCH BASINS</u>	<u>ACTUAL</u>
Crescent St./ Moody to Ash St.	25	
Chester Avenue	5	
Orange Street	11	
Robbins Street/ Crescent St. to Moody St.	10	
Brown Street/ Crescent St. to Moody St.	9	
Crescent St. Ash to Moody @ Cronin's	23	
Ash Street- Crescent to Moody	12	
Cherry St./ Crescent to Moody	11	
Maple Street/ Crescent to Moody St.	13	
Chestnut St./ Crescent to Moody St.	9	
Walnut Street	5	
Spruce Street	4	
Adams Street	8	
	Total	145
AND The Brandies Campus	20 ±	165

Catch Basin Stenciling Attachment (2.3)

Done by Bentley College Students 9/21/08

<u>STREET</u>	<u>CATCH BASINS</u>	<u>ACTUAL</u>
Forest St./Beaver to Woodcliff Rd.	13	
Rogers Way	1	
Forest Circle	2	
Woodcliff Drive	8	
Ivy lane	5	
Azalea Road	4	
Ledge Road	8	
Forest St./Woodcliff to Harrington	6	
Pigeon Lane	8	
Chatham Lane	4	
Juniper Hill Road	4	
Cliff Road	1	
Rutledge Terrace	1	
Harrington Road	21	
Rosewood Drive	2	
Forest Street		
Harrington to Harrington	13	
Forest Park Drive	10	
Lauricella Lane	12	
Lisa Lane	2	
Pigeon Lane	8	
Amelia Drive	4	

Roseanna Park Drive
Lory Lane
Raffaele Drive

6
8
7

TOTAL 171

RECEIVED

APR 13 2009

*Catch Basin Stenciling
Attachment (2.3)*

ENGINEERING DEPT

BENTLEY COLLEGE PROJECT #2 - OCTOBER 4 & 5, 2008

<u>STREET</u>	<u>CATCH BASINS</u>	<u>ACTUAL</u>
Forest Street- Harrington to Trapelo Rd.	12	
Doty Street	18	
Circle Drive	15	
Addison Road	3	
Marguerite Ave.	6	
Hemlock Terrace	3	
Elinor Circle	1	
Agustus Road	3	
Temple Rd. - Doty to Hobbs Rd.	11	
Harmon Road	2	
Hobbs Road	14	
Temple Rd. - Hobbs Rd. to Abbott Rd.	12	

Warwick Ave.	10
Putney Lane	3
Greer Street	12
Sheerwood Lane	2
Drury Lane	4
Gilman Road	5
Trapelo Road- Gilman to Alderwood Rd.	31
Alderwood Road	6
Shade Street	4
Kenwood Lane	2
Marguerite Ave.-across Trapelo Road	7
Dawes Street	1
Emeline Ave.	5
Wight Street	4
Helen Street	3

Total 203