Municipality/Organization: **City of Newton, MA**

EPA NPDES Permit Number: **MAR 041080**

MaDEP Transmittal Number: **W- W-039247**

Annual Report Number & Reporting Period: **No. 9: April 2011 –March 2012**

NPDES PII Small MS4 General Permit Annual Report April 2012

Part I. General Information

Contact Person: David Turocy Title: Public Works Commissioner

Telephone #: 617-796-1000 Email: dturocy@newtonma.gov

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: Setti D. Warren

Title: Mayor

Date: 5/1/12

Part II. Self-Assessment

The City of Newton, Massachusetts has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for Minimum Control Measure #3 Illicit Discharge Detection and Elimination (IDDE). The City has found bacteria contamination in some of its storm drains and brooks, particularly in areas where sanitary sewer infrastructure is aging, underdrains are co-located, and underground pathways or conduits to our drainage systems exist. Newton is proactively finding and eliminating illicit connections to the storm drainage system. In addition, we feel that our Comprehensive Stormwater Plan is an effective program to address IDDE in more detail than this permit requires.

The following is provided to highlight key accomplishments made in Permit Year 9 with respect to MS4 General Permit goals and objectives.

Administrative

- Budgeted $725,000 in FY12 for stormwater management and capital projects.
- Drafted a new ordinance to update our stormwater rate structure, which once adopted will increase our revenue for stormwater management by approximately $300,000.

Programmatic & Drainage System

- Newton was honored to receive a partner award from the Charles River Watershed Association for significant contributions towards the restoration of the Charles River at a ceremony on March 22, 2012.
- Sections of storm drains are routinely inspected (video camera) for water quality issues (based upon bacteria sampling data) and flood conveyance checks. As needed these drain lines are cleaned (i.e., roots cut and sediment removed) by DPW.
- Re-testing of sanitary sewer work as part of the Area B Rehabilitation contract is on-going. This is done to check that joints were sealed and underdrain access ports were successfully sealed / separated from the sewer. Additional sewer and underdrain rehabilitation work is in the design phase, and a new project is in the investigation phase.

Good Housekeeping & Illicit Discharge Detection and Elimination

- Our 2011 Household Hazardous Waste (HHW) collection program ran from May 11th through October 15th. Last year, we collected 128 Tons of HHW that may otherwise find its way into the trash or the storm drain system. Please see Attachment A for a detailed breakdown of HHW and visit: http://www.newtonma.gov/gov/dpw/recycling/default.asp
- The Parks and Recreation Department strives to use very little, if any, pesticides. Any application of pesticides or herbicides on City property is done in accordance with our Integrated Pest Management (IPM) Policy. A report from Parks & Recreation is included in Attachment A.
- Newton monitors 143 stormwater discharge points to the Charles River, including the many brooks that feed into the Charles, by conducting wet and dry weather sampling.

Public Education and Involvement

- Numerous activities and events listed in the following table.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
1.1	Develop Stormwater Press Release	Engineering, M. Rose	Submit annual press release to newspaper / CATV.	Distributed "Please Scoop the Poop" pet waste postcards to all registered dog owners in the City. Example provided in Attachment B. Press release submitted to the NewtonTAB on guidelines for draining pools and spas (printed Sept. 2011).	Wrote an article for the Crystal Lake Conservancy Newsletter- to be published in May 2012. Waiting for new permit requirements.
Revised		DPW Utilities, M. Rose			
1.2	Develop Stormwater Web Site	Engineering, M. Rose	Prepare web site on stormwater issues.	Complete. http://www.ci.newton.ma.us/stormwater/	None, BMP complete. Continuance under BMP 1.4
Revised		DPW Utilities, M. Rose			
1.3	Develop Stormwater Brochures	Engineering, M. Rose	Distribute brochures with water/sewer bills	Newton purchases material from the SuAsCo's Stormwater Community Assistance Program. We also distributed brochures on phosphorus (from CRWA) at the Newton Famers Market in May and June 2011. Examples in Attachment B.	BMP Complete. However, new brochures and literature will be continually added to our stock, as needed.
Revised		DPW Utilities, M. Rose			
1.4	Provide Stormwater News on City's web site	Engineering, L. Taverna & M. Rose	Post stormwater and/or project news once per year	Stormwater information and news is posted on the main page of the City of Newton's website and our Stormwater web page.	Maintain and update stormwater web page as needed.
Revised		DPW Utilities, M. Rose			
1.5	Establish Volunteer Database	Environmental, M. Rose	Solicit volunteer educators to promote awareness of water quality	Database established and is used mostly to encourage participation in Annual Charles River Clean-up & storm drain stenciling.	None, BMP complete.
Revised		DPW Utilities, M. Rose			

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
1.6	Partner with Schools	Environmental, M. Rose	Obtain and distribute educational resources to schools.	We continued to offer specialized School Education Programs; see website for info: http://www.newtonma.gov/gov/dpw/water/stormwater.asp During this permit period, "*Drinking Water Decisions"* was taught at the Oak Hill Middle School. We also assist High School students with their Environmental Service Projects, as requested.	Continue with implementation of various school education and partnering programs.
Revised		DPW Utilities, M. Rose			
1.7	Develop Education Program	Environmental, E. Gentile and M. Rose	Implement stormwater pollution prevention program	April is "**GreenUp Newton**" where DPW promotes and hosts various educational programs at locations throughout the City including: a green habits exhibit, composting demonstrations, rain barrel sale and more. We also held a **Go Green Giveaway** for individuals that completed a survey. The exhibit & survey cards circulated to several locations in the City. *See Attachment B* for survey results and additional information.	Continue promoting water conservation, organic and environmentally-friendly lawn care methods and no phosphorus fertilizers.
Revised		Change division for M. Rose to DPW Utilities			
1.8	Partnering with Watershed Associations	Engineering, L. Taverna M. Rose	Promote meetings with Charles River Watershed Association (CRWA).	Newton actively supports CRWA programs and initiatives including workshops and the Annual Charles River Clean-up. At the request of the following organizations: Save the Bay – Narragansett Bay RI, New England Water Environment Association; and SuAsCo Watershed; M. Rose provided presentations on stormwater financing.	Maintain active participation and collaboration with the CRWA.
Revised		DPW Utilities, M. Rose			

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
2.1	Establish Stormwater Advisory Committee	DPW Utilities, F. Russell	Committee to meet once per year	BMP Completed in prior years.	None.
Revised					
2.2	Implement Public Meetings for Citizen Input	DPW, T. Daley M. Rose	Hold meetings once per year, publish results.	DPW gave a presentation at the Crystal Lake Conservancy Annual Meeting held at the Newton Public Library on October 24, 2011.	None, coverage under new Permit.
Revised		Delete T. Daley Add D. Turocy			
2.3	Encourage Citizen Communication and Reporting	Engineering, L. Taverna	Establish stormwater hotline for illicit discharges.	Customer service center and phone number established at City Hall. All stormwater questions and comments directed to Engineering or Utilities.	BMP Complete. Continue with current protocols.
Revised					
2.4	Network with Local Community Groups	Engineering, M. Rose T. Daley	Observe outfalls, report illicit discharges & stream clean-up.	Staff attends at least one meeting per year of the Friends of Hemlock Gorge (FHG) and the Crystal Lake Conservancy. DPW supports these groups' efforts and addresses any concerns as the need arises. Coordinates with FHG for the Annual Charles River Cleanup.	Continue to provide support to these groups and foster a partnership approach with the City.
Revised		Delete T. Daley Add D. Turocy			
2.5	Implement Storm Drain Marking Program	Utilities, T. Jerdee M. Rose	Volunteers mark catch basins with decals.	Permanent storm drain markers were installed along side of catch basins in the City. Storm drain stenciling was completed by volunteers at various locations in the City.	BMP Complete. Continue with storm drain marking program.
Revised					
2.6	Promote Community Clean-Up day	Parks & Recreation; & M. Rose	Promote annual community clean-up day	M. Rose is a Regional Volunteer Coordinator and has served on the Charles River Clean-up Steering Committee for the past 6 years. Newton Serves was held on May 15, 2011. Volunteer groups target specific areas of the City for clean-up. For more info, visit: http://newtoncommunitypride.org/NewtonSERVES.html	Continue with annual community clean-up day. See also BMP 1.8
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
3.1	Establish Stormwater System Map	Engineering, T. Jerdee	Update GIS information, locate all outfalls.	BMP previously completed.	BMP Complete.
Revised		DPW Utilities, F. Russell			
3.2	Establish Stormwater Database Management System	Utilities, T. Jerdee	Add stormwater information to Hansen database.	BMP previously completed.	BMP Complete.
Revised					
3.3	Locate and Inspect all Outfalls	Utilities, T. Jerdee & M. Rose	Collect outfall data for Hansen database.	BMP previously completed.	Continue with monitoring and sampling program.
Revised					
3.4	Review existing Ordinances & determine whether they adequately prevent Illicit Discharges	Engineering, L. Taverna	Propose to BOA revisions to stormwater ordinance/ policies, as appropriate	A Draft IDDE Ordinance has been prepared and included in annual reports No. 5 and 6. It was unable to be approved at that time, but we have since revised and will try again with new Administration.	Present draft ordinance to the Board of Alderman in the Spring of 2012.
Revised		DPW Utilities, F. Russell			
3.5	Identify Illicit Discharge Sources	Utilities, T. Jerdee F. Russell	Identify bacteria sources via visual and CCTV inspections, dye and/or pressure tests.	DPW continually monitors and investigates potential indirect and direct illicit discharges to our storm drainage infrastructure. During this permit period: 275 catch basins were cleaned and approx. 4700 linear feet of drains were cleaned.	Continue with efforts to find and remove indirect (underdrains) and direct illicit discharges.
Revised					
3.6	Establish Illicit Discharge Hotline	Engineering, M. Rose	Receive and track citizen reports of illicit discharges.	Hotline established (customer service center). No calls received regarding illicit discharges during this period.	BMP Complete. Continue to encourage citizen reporting of illicit discharges.
Revised		DPW Utilities, M Rose			

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
3.7	Train Employees	Utilities, T. Jerdee	Employees to help identify illicit discharges.	Training on this topic was conducted in prior years. BMP Complete.	BMP Complete.
Revised					
3.8	Monitor City's infrastructure for illicit discharges and non-point source pollution	Utilities, T. Jerdee Engineering M. Rose	Observe major outfall discharges.	A comprehensive outfall monitoring program has been in place for numerous years. During this reporting period 104 outfalls were inspected with sampling occurring at 65 of these locations. See Attachment C for Annual Inspection and Sampling Plan.	Continue with implementation of IDDE program.
Revised		Change division for M. Rose to DPW Utilities			

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
4.1	Review existing Ordinances and determine whether they adequately regulate construction site stormwater runoff	Engineering, L. Taverna	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating construction site stormwater runoff.	Currently, there are numerous mechanisms through which new construction site runoff is prevented and controlled. These mechanisms include: an existing Ordinance (Sec 30-5c and 5d), DPW / Eng. Division Policy and the Special Permit approval process. Most construction projects regardless of size are required to provide soil erosion control measures. DPW has two inspectors who ensure the measures shown on Approved Site Plans are implemented.	BMP Complete.
Revised					
4.2	Implement Review of Construction Documents	Engineering, J. Daghlian	Establish policy for submittal of erosion control plans.	BMP Complete.	BMP Complete. Continue with plan reviews for building permits.
Revised					
4.3	Implement Construction Inspection Program	Engineering, J. Daghlian	Develop guidelines, training, inspection of construction sites > 1 acre.	All construction sites inspected by Engineering. BMP guidelines followed.	Continue with inspection of all construction sites. Develop training for construction inspectors.
Revised					
4.4	Educate Developers on Proper Erosion Control Techniques	Engineering, J. Daghlian / M. Rose	Distribute erosion control procedures to all applicants.	Engineering requires erosion control BMPs for all construction.	BMP Complete. Continue with implementation.
Revised					
4.5	Provide opportunity for citizen review and input on construction projects	Engineering, J. Daghlian	Ensure citizen review procedures for construction projects > 1 acre.	Citizen input of construction projects occurs during Conservation Commission, Land Use, and Board of Survey public hearings. Citizen review also occurs when Environmental Impact Reports are required.	BMP Complete. Continue with implementation.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
4.6	Establish Information Management System	Engineering, J. Daghlian	Track construction reviews and construction inspections.	An inspector is assigned to all construction projects over 1 acre (as well as many <1 ac). This person maintains a personal field log book of key events.	BMP complete. Continue with implementation.
Revised					
4.7	Establish Standards for Erosion and Sedimentation Controls	Engineering, J. Daghlian	Establish adaptation of MADEP SWM Standard 8	Engineering requires implementation of MADEP SWMP Standard 8 for all construction projects > 1 acre.	BMP Complete. Continue with implementation.
Revised					

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
5.1	Review existing Ordinances and determine whether they adequately regulate post construction stormwater runoff	Engineering, L. Taverna	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating post construction stormwater runoff	Collaborated with the Planning Dept. and Inspectional Services Dept. regarding our existing ordinances and permit requirements. At this time, these provide adequate protection.	BMP Complete.
Revised					
5.2	Develop Stormwater Management Policy	Engineering, L. Taverna	Establish policy to establish minimum BMPs for developers.	BMP Complete. Continue with implementation.	BMP Complete. Continue with implementation.
Revised					
5.3	Develop Stormwater Operations and Maintenance Policy	Engineering, J. Daghlian	Establish policy to establish minimum operations and maintenance plans.	Engineering requires the submittal of stormwater operations and maintenance plans for all construction > 1 acre.	BMP Complete. Continue with implementation.
Revised					
5.4	Implement Controls to Minimize Impacts to Water Quality	Engineering, J. Daghlian / M. Rose	Implement use of structural and non-structural BMPs.	DPW/Eng. requires developers to implement MADEP Stormwater Standards (1- 8) for applicable projects. Separate and supplemental requirements are outlined for smaller construction projects in the City's Stormwater Management Policy.	BMP Complete. Continue with implementation and stormwater recharge requirements.
Revised		Change division for M. Rose to DPW Utilities			
5.5	Encourage Reducing Directly Connected Impervious Surfaces	Engineering, J. Daghlian	Encourage the use of grass swales and filter strips.	Recommended to developers during development review team meetings.	Continue to recommend for all construction projects > 1 acre. Continue to be a resource for developers and homeowners on alternatives to asphalt pavement.
Revised		Add M. Rose			

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
5.6	Determine Capacity of Stormwater System Elements	Engineering, J. Daghlian	Perform capacity analysis for wet weather events.	Sewer and drainage improvements on Old Farm Road & vicinity are completed. The southeastern corner of the City has historically been plagued with flooding and SSO's issues.	BMP Complete.
Revised					
5.7	Review existing Ordinances and determine whether they adequately regulate recharges to groundwater	Engineering, J. Daghlian	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating recharges to groundwater	Current practices include on-site stormwater recharge requirements for new construction.	BMP Complete.
Revised					
5.8	Implement Use of Groundwater Recharge Rates	Engineering, J. Daghlian	Explore adaptation of MADEP SWMP Standard 3	Engineering requires implementation of MADEP SWMP Standard 3 for all construction projects > 1 acre.	BMP Complete. Continue with implementation.
Revised					
5.9	Implement Post Development Peak Discharge Rates	Engineering, J. Daghlian	Implement adaptation of MADEP SWMP Standard 2	Engineering requires implementation of MADEP SWMP Standard 2 for all construction projects > 1 acre.	BMP Complete. Continue with implementation.
Revised					
5.10	Implement Requirements for Removal of 80% TSS	Engineering, J. Daghlian	Implement adaptation of MADEP SWMP Standards 4 & 7	Engineering requires implementation of MADEP SWMP Standard 4 & 7 for all construction projects > 1 acre.	BMP Complete. Continue with implementation.
Revised					

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
6.1	Develop Staff Training Program	Environmental, E. Gentile	Train staff on spill prevention control, vehicle maintenance, and lawn care.	Municipal staff training on Phosphorus Reduction tools was provided to our staff by the Charles River Watershed. Newton hosted this workshop which was open to other Charles River communities in the middle and lower watershed.	None.
Revised		Add M. Rose			
6.2	Develop Stormwater Pollution Prevention Plan	Environmental, E. Gentile	Develop spill prevention control procedures.	A self-audit of DPW Yards was conducted in April 2009. Spill prevention procedures and spill kits are on premises. In general, good housekeeping practices in place; however, improvements can be made.	Develop a Stormwater Pollution Prevention Plan for DPW Yards.
Revised		Add M. Rose			
6.3	Develop Flood Mitigation Plan	Utilities, T. Jerdee	Develop plan, perform exercises.	BMP Complete.	Continue field exercises and update the flood mitigation plan, as needed.
Revised					
6.4	Establish Inspection Procedures	Utilities, T. Jerdee	Inspect storm drain system using visual inspection and CCTV.	Inspected 104 outfalls and collected 65 samples from these outfalls (those flowing). Cleaned approximately 1 mile of the City's storm drainage system.	Continue to inspect storm drain system.
Revised					
6.5	Incorporate BMPs into Standard Procedures	Utilities, T. Jerdee Highway, S. Tocci	Establish BMPs for municipal operations and maintenance.	Stormwater BMPs are designed into new or redevelopment projects for City-owned property, most recently would be stormwater management BMPs for the Crystal Lake Bath house parking lot.	BMP Complete. Review needs for other stormwater retrofit / improvement projects.
Revised		Delete S. Tocci Add Brian Zaniboni			
6.6	Establish Maintenance Procedures	Utilities, T. Jerdee	Vactor/flush storm drains to remove sedimentation	BMP Complete.	BMP Complete. Continue with implementation.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10
6.7	Establish Maintenance Procedures	Utilities, T. Jerdee	Clean drainage brooks to remove sedimentation.	Design plans are complete for the dredging of three inter-connected lobes of a pond. The permitting phase is complete and we are awaiting funding approval from the Board of Alderman.	Construction of the pond dredging project in FY13. Two culverts that discharge into this pond will also be cleaned as part of this project.
Revised					
6.8	Establish Maintenance Procedures	Utilities, T. Jerdee	Clean catch basins every 2 years.	We cleaned 275 catch basins during this reporting period.	Continue with catch basin cleaning program.
Revised					
6.9	Establish Maintenance Procedures	Highway, S. Tocci	Sweep streets 2 times per year.	Streets were swept 5 times in 2011 and in some locations as many as 8 times.	Continue with street sweeping program.
Revised		Delete S. Tocci Add Brian Zaniboni			
6.10	Establish Maintenance Procedures	Highway, S. Tocci	Calibrate salt spreaders annually.	Salt spreaders calibrated fall 2011.	Calibrate salt spreaders every year.
Revised		B. Zaniboni			
6.11	Implement Household Hazardous Waste Program	Environmental, E. Gentile	Collect waste oil, antifreeze, paint, pesticides.	Household Hazardous Waste (HHW) is collected approx. one day per week from May through October. See attached memo from Env. Affairs on results.	BMP Complete. City will continue to operate HHW collection facility.
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 8
7.1	Check Criteria for Meeting TMDL	Engineering M. Rose	EPA criteria for TMDLs checked.	Participated in MaDEP Advisory Group Sub-committee on the phosphorus TMDL for the Charles River.	Work towards reducing phosphorus load from Newton's brooks and conduits to the Charles River.
Revised		DPW Utilities, M. Rose			
Revised					
Revised					
Revised					

7a. Additions –N/A

7b. WLA Assessment – N/A

Part IV. Summary of Information Collected and Analyzed

Please refer to Part IIA – Self Assessment for the City summary of information collected and analyzed.

We are hopeful that the information provided is adequate to demonstrate our commitment to improving our SWMP and ultimately ensuring the quality of our stormwater discharges meets or exceeds standards.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic: Stormwater User Fee created, effective July 1, 2006.

Stormwater management position created/staffed – Environmental Engineer	(y/n)	Yes
Annual program budget/expenditures (catch basin cleaning, materials, one Stormwater Program Manager, and four DPW Utilities labor positions, public educations and maintenance) for FY11	($)	$725,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	2,000
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y (Charles river)
Shoreline clean-up participation or quantity of shoreline miles cleaned (during 12th Annual Earth Day Charles River Cleanup; 12 community groups participated in Newton)	(y/n or mi.)	8+ miles
Household Hazardous Waste Collection Days (*May 2011 to Oct. 2011*)		
▪ days sponsored	(#)	19
▪ community participation	(%)	39%
▪ Material collected: CRTs, auto & button batteries, fluorescent bulbs, paint, waste oil, thermostats, thermometers, and elemental mercury. (*some of which are collected year round*)	(tons or gal)	See Attach-ment A
School curricula implemented	(y/n)	Y

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	
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	143
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	100%
▪ CADD	(%)	100%
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified (mostly underdrains) total # since issuance of NPDES MS4 permit	(#)	12
Illicit connections removed	(#) (est. gpd)	9 2,000+
% of population on sewer	(%)	98.5
% of population on septic systems	(%)	1.5

Construction

Number of construction starts (>1-acre) [Chestnut Hill Square]	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	Warnings issued*
Fines collected	(# and $)	0
Complaints/concerns received from public	(#)	2*
**from smaller residential construction projects, not the two projects listed above*		

Post-Development Stormwater 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)	Unknown**
This value would take significant time to quantify, but most likely would be > **100,000 gallons/yr		

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Once every other year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	Once per year
Total number of structures (CBs) cleaned	(#)	275
Storm drains cleaned	(LF or mi.)	4700 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	124 tons†
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	($)	$ 3,100 †
†Estimated. Catch basin material is currently stockpiled and awaiting disposal. This material will be combined with additional catch basin cleaning material currently being collected.		

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	5
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	8
Qty. of sand/debris collected by sweeping	(lbs. or tons)	Unknown
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Beneficial use
Cost of sweepings disposal	($)	0
Vacuum street sweepers purchased/leased	(#)	0
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 %)	30 %
▪ Herbicides	(lbs. or %)	98 %
▪ Pesticides	(lbs. or %)	98 %
* Newton's Integrated Pest Management Policy was provided in the Year 5 report. See also Parks & Recreation Info on Pesticides usage for this past year.		

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	96% 0 2% 0 0 0 2%
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	N
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	(y/n)	N

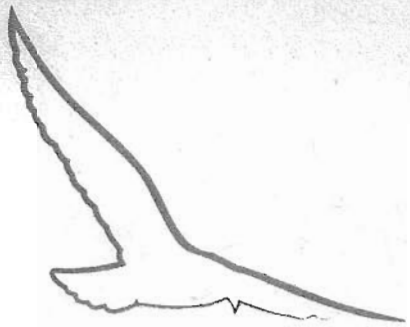
Attachment A

Copies of:

Copy of CRWA Partner Award to the City of Newton

Memo from Newton's Director of Environmental Affairs on HHW and Universal Waste Collection days and Rain barrels sold in 2011

Department of Parks and Recreation's 2011 Pesticide Usage



2011 Thiess International River*prize*

City of Newton

a partner of the

Charles River Watershed Association

for significant contributions to the restoration of the Charles River.

INTERNATIONAL RiverFoundation

THIESS

CRWA®

CITY OF NEWTON
DEPARTMENT OF PUBLIC WORKS

ENVIRONMENTAL AFFAIRS

Memorandum

TO: Maria Rose, Environmental Engineer

FROM: Elaine Gentile, Director of Environmental Affairs

DATE: April 18, 2012

RE: NPDES Info

CC: David Turocy, Commissioner

HHW/Universal Waste Information:

1. Number of rain barrels sold: >100 hh
2. Number of hhw collection days: 19
3. Number of universal collection days: 300
4. Percent population: 39.3% (Based on 585 cars for hhw, 12,000 cars for universal)
5. Universal collection B/D:

    - Elemental Hg: 19.4 lbs
    - Waste oil/auto/antifreeze: 2.66 T
    - Button batteries:
    - Freon appliances: 105 T
    - CRTs/Electronics:
    - Paint swap: 6.34 T

6. HHW Collection: 7.9 T
7. Thermometers: 47 units
8. Thermostats: 246 units
9. Switches: 23 units
10. Sphygmomanometers: 5 units
11. Barometer: 3 unit
12. Fluorescent Bulbs: 5.7 T

Total universal/hhw tons: 128 T; does not include elemental mercury, button batteries, items by units or CRT/Electronics. Tonnage down from last year due to the fact that CRTs and electronics are now by fee and people have started to use free services, i.e. Best Buy, Staples, etc.

City if Newton
Department of Parks and Recreation
Division of Maintenance
2011 - 2012 Pesticide Usage
3/31/12

Three pesticide applications occurred from April 2011 - March 2012.

	HERBICIDE	AMOUNT USED	DATE
1.	Roundup	.5 gallons	3/22/12
2.	Roundup	.6 gallons	3/23/12
3.	Roundup	1.1 gallons	3/26/12

	LOCATIONS	DATE
1.	Cypress Street Municipal Parking Lot Mulch Beds	3/22/12
2.	Cypress Street Municipal Parking Lot Mulch Beds	3/23/12
3.	Elm Street Municipal Parking Lot Mulch Beds	3/26/12

The material was applied by Derek Mannion of the Newton Parks and Recreation Department.

Attachment B

Public Education and Outreach Materials

12th Annual Earth Day
Charles River Cleanup



Thank you for volunteering! The 12th Annual Charles River Clean Up held April 16th was a tremendous success. **3,000 volunteers** worked to remove **50 tons** of trash from **150 sites** in **22 different communities.**

We appreciate your efforts, as does everyone who enjoys walking, biking, jogging or fishing along the river. Thanks to your help, the Charles River Watershed is cleaner, more beautiful, and a healthier habitat for wildlife.

We hope to see you again next year!




Thanks from the Cleanup Organizers: Eivy Monroy, Amber DiNucci, Julie Wood, Jessica Blohm, Teressa Bryant, Susan Ekstrom, David Dobrzynski, Kevin Hollenbeck, Matthew McKenna, Maria Rose, Logan Walsh

Organized by: Charles River Watershed Association, Senator Steve Tolman's Office, Charles River Conservancy, The Trustees of Reservations, Emerald Necklace Conservancy, Department of Conservation and Recreation, The Esplanade Association, and the City of Newton Public Works

Major 2011 Sponsors: Hyatt Regency Cambridge, New Balance, and Mix 104.1

Photo credits: Top left to right: T. Zeitler; E. Gildegame; T. Zeitler;
Bottom left to right: A. Ash; E. Gildegame; M. Rose; T. Zeitler.

The Green Bin

Volume 4, Issue 1 April 2011 Newton, MA

Welcome to Spring!

GREAT NEWS! For the first time, the City's recycling rate is above 50%! For Fiscal Year 2010, the City of Newton's recycling rate was 52% That is an increase of 7% over the previous year! Trash tonnages are down by 2500 Tons (or 10%), which equals 208 trash trucks filled to capacity! Recycling has increased by over 3700 Tons (or 18%), that's the same as 804 elephants! Keep up the excellent work!

Yard Waste Collections resume the week of April 11th. Please place in paper yard waste bags or barrels labeled with "YARD WASTE ONLY" labels and put to the curb prior to 7am on your collection day. (Stickers available at City Hall Customer Service Center) Plastic bags are NOT accepted. Click here for more details.

Interested in composting at home? The City sells low-cost bins and provides how-to tips, click here for more information!

Rain Barrels for Sale! Interested in Water Conservation? Collect rain water runoff to water your garden! Rain barrels can be purchased for $72.70 online at New England Rain Barrel or by calling 1.877.977.3135.

Pickup dates for Newton will be Saturday, April 23rd and Tuesday, April 26th at the Rumford Avenue Recycling Depot. Please note rain barrels must be purchased by Monday April 18th.

NEW SCHEDULE! Household Hazardous Waste Drop-offs resume Wednesday, May 11th from 7:30am-12:30pm. Drop-offs for 2011 will be every Wednesday until June 29th and then again from September 7th– October 12th at the Rumford Ave Recycling Depot. There will also be drop-offs on four separate Saturdays: May 21, June 25, September 17, and October 15. The facility will be closed in July and August, except for July 20th and August 17th.

For a listing of accepted materials, managing hazardous waste, alternative products and how to transport materials safely, click here.

Sharps Take Back Day Do you have used needles from medical treatment? Do you want to safely dispose of your pet's medication syringes? The City of Newton will take your used sharps for safe disposal from Newton Residents on **Saturday, May 21 from 7:30 a.m. to 12:30 p.m.** at the Rumford Avenue Recycling Depot.

To take part in this free service, residents must bring their sharps in a puncture resistant container such as a detergent bottle or red medical waste container. The container should be tightly closed. Loose needles and lancets will not be accepted. To make this program cost effective, containers should be nearly full. Click here for more information.

Program Updates

Styrofoam Recycling Pilot The Rumford Avenue Recycling Depot now accepts clean white Styrofoam for recycling! Packing pieces, trays, coffee cups, all types of white Styrofoam! All Styrofoam MUST be in bags (no loose Styrofoam will be accepted) please NO packing peanuts.

DPW Division of Environmental Affairs
recycling@newtonma.gov 617.796.1000
www.newtonrecycles.com

Follow us on Twitter! Newton Recycles is now on Twitter!

Helpful Links:

- **Automated Program Questions**
- **Single Stream Recycling Guidelines**
- **The Recycling Depot at Rumford Ave**
- **Recyclopedia—A-Z guide**

We hope you enjoy the Green Bin—a quarterly newsletter from the Newton DPW Division of Environmental Affairs.

Please share!

To subscribe/unsubscribe to the Green Bin, click here.

Press Release: May 6, 2011

Go Green Giveaway!

The Public Works Department invites you to visit their **Green Habits Exhibit** currently on display at the Auburndale Branch Library and at the Spring Farmer's Market on Tuesdays at the American Legion Post 440 on California Street. Learn about better ways to care for your vehicle; where to take used motor oil; why it's important to avoid fertilizing your lawn before it rains – or better yet, use natural fertilizers like compost; and in general how to Green-up Newton! Find out if you are a "stormwater star" by taking a short self test! Everyone who completes the self test will be entered into a drawing to win some great raffle prizes including: a Rain Barrel donated by the New England Rain Barrel Company, a car wash donated by Dr. Detail Car Wash, organic fertilizer donated by Swartz True Value Hardware and more.

How "Green" Are Your Stormwater Habits?

*Circle the answer that **best** describes your personal habits.*

If a question doesn't apply, answer what you would most likely do in that situation. Be true to yourself!

A. Litter habits:
1) I sometimes litter
2) I never litter and usually recycle
3) #2 above plus I have participated in a neighborhood, park or river cleanup

B. Storm drains:
1) I have put pet waste, trash, yard waste, oil, or paint down a storm drain
2) I never dispose of anything down a storm drain
3) #2 above plus I sweep leaves and debris AWAY from nearby storm drains

C. After my lawn is mowed, the grass clippings are:
1) collected and tossed onto the road-side, a stream bank, or "vacant" land
2) collected and used as compost/mulch or disposed of as yard waste
3) left in place on the lawn

D. The following approach is used when fertilizing my lawn:
1) the more fertilizer, the better, and leave overspread where it is
2) follow the guidelines on the fertilizer bag, and sweep up overspread
3) use fertilizer only as needed or not at all, and avoid any overspread

E. I manage steep slopes on my property by:
1) ignoring any runoff that washes off and erodes the slope
2) channeling rainwater away from the slope to where it can slowly seep into the ground
3) maintaining native vegetation on the slope to stop erosion

F. When walking my dog, I usually:
1) leave the waste where it is or drop it down a storm drain
2) move the waste to a less traveled location such as a field or woods
3) pick up the waste and dispose of it down the toilet or in the trash

G. Most of the rainwater running off my roof is directed to flow:
1) down the driveway
2) onto my lawn or garden(s)
3) into a rain barrel

H. I typically wash my car:
1) in my driveway where the wash water flows into the street
2) on my lawn where the wash water can seep into the soil
3) at a commercial carwash where the wash water is recycled and treated

I. Car care:
1) I ignore fluid leaks from my car for as long as possible
2) I check for fluid leaks and repair them promptly
3) #2 above plus I follow my car's complete maintenance schedule

J. My driveway is made of:
1) asphalt or a similar NON-porous pavement
2) sand or gravel
3) porous or permeable pavement

Add up your score using the number of your answer as its point value, and check your rating below!

1-10: "Stormwater Starter"
By greening up your stormwater habits, you will significantly help to improve the water quality in our community!

11-20: "Stormwater Smart"
You're already helping to improve local water quality, but you can still do more!

21-30: "Stormwater Star"
Congratulations on being a good stormwater citizen! Please keep up the good work, educate others, and strive for all 30 points!

By **GREENING** our stormwater habits, we can keep our waterways **BLUE!**

Name:

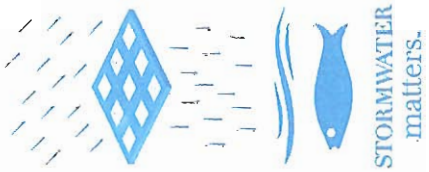
Email:

Phone:

How "green" are your stormwater habits?

Take the quiz on the back to find out!

Stormwater is the runoff water after it rains or snows. Stormwater picks up litter, bacteria, oil, sand, and other debris as it flows over the land and into storm drains; and it carries these pollutants to our rivers, lakes, wetlands, and the ocean. Because we all have an impact on stormwater, we can all improve the water quality in our community by adopting green stormwater habits.



STORMWATER matters.

For more information, visit our community's website or go to www.stormwatermatters.org.

Newton Dept. of Public Works

Results from Green Habits Survey: May - July 2011

Green Habits Survey Results
May - July 2011

Surveys Returned 61 as of 07/07/11

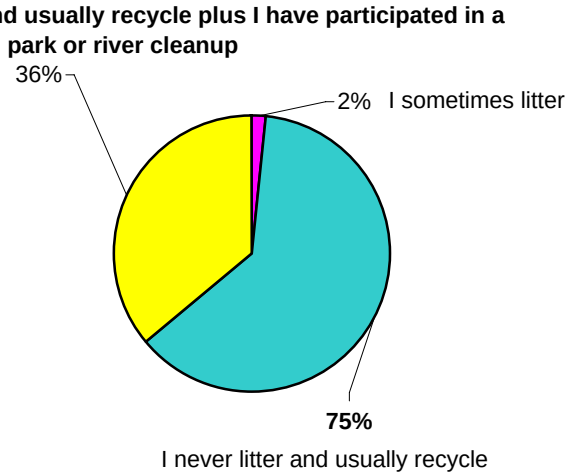
		Answers				
	Question Number	A	B	C	n/a	Total
1	Litter habits:	1	38	22	0	61
		A	B	C		
2	Storm drains:	2	30	29	0	61
		A	B	C		
3	After my lawn is mowed, the grass clippings are:	2	32	25	2	61
		A	B	C		
4	The following approach is used when fertilizing my lawn:	0	4	54	3	61
		A	B	C		
5	I manage steep slopes on my property by:	3	21	27	10	61
		A	B	C		
6	When walking my dog, I usually:	0	2	36	23	61
		A	B	C		
7	Most of the rainwater running off my roof is directed to flow:	5	50	6	0	61
		A	B	C		
8	I typically wash my car:	5	5	44	7	61
		A	B	C		
9	Car care:	1	23	36	1	61
		A	B	C		
10	My driveway is made of:	50	3	6	2	61

Best answers are shown in bold.

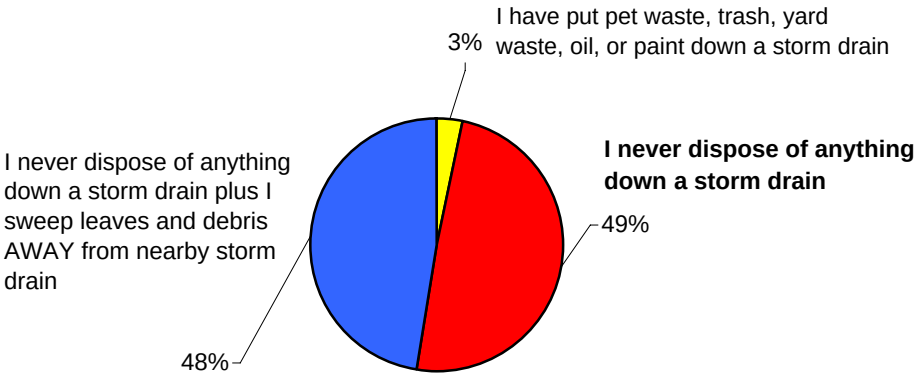
Newton Dept. of Public Works

Results from Green Habits Survey: May - July 2011

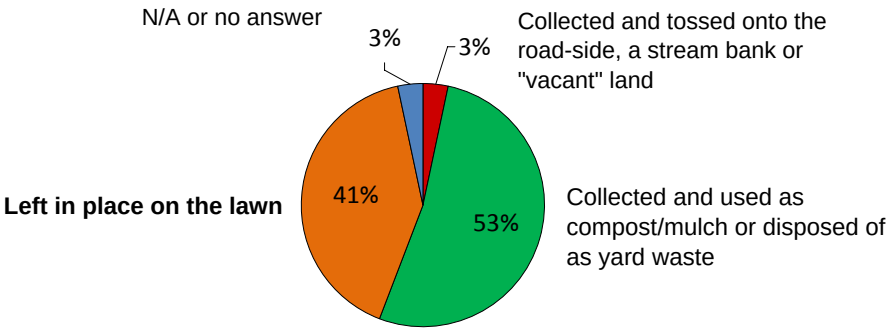
Litter habits:



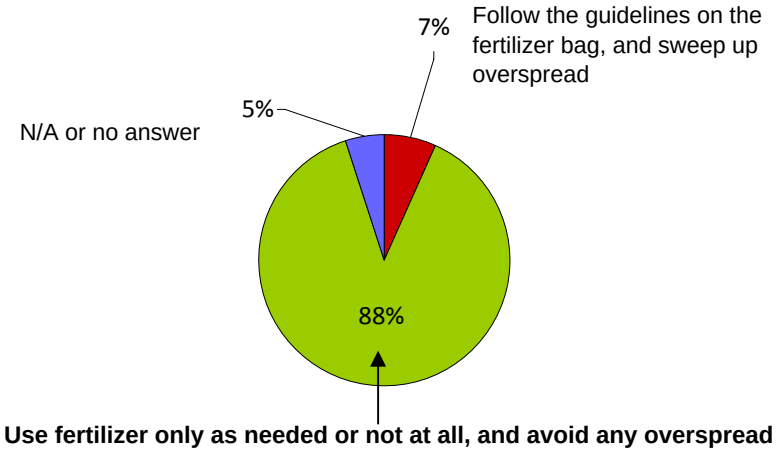
Storm drains:



After my lawn is mowed, the grass clippings are:



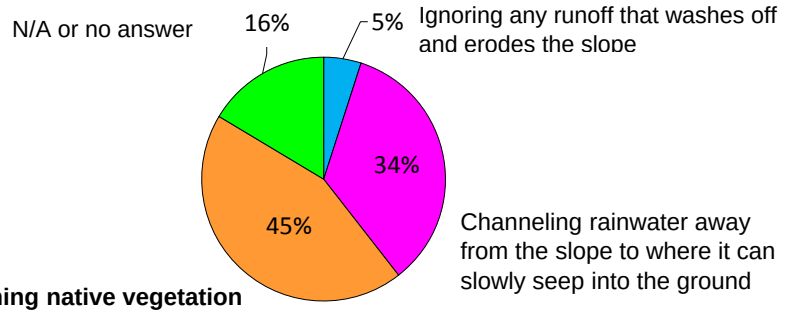
The Following approach is used when fertilizing my lawn:



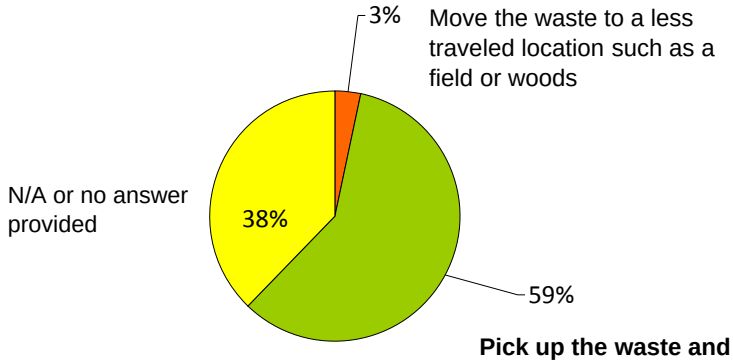
Newton Dept. of Public Works

Results from Green Habits Survey: May - July 2011

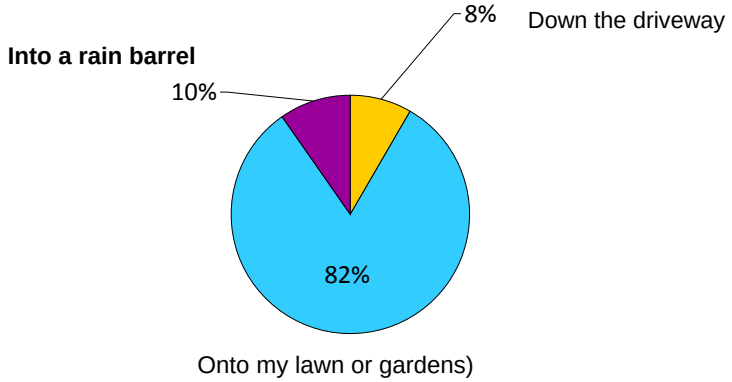
I manage steep slopes on my property by:



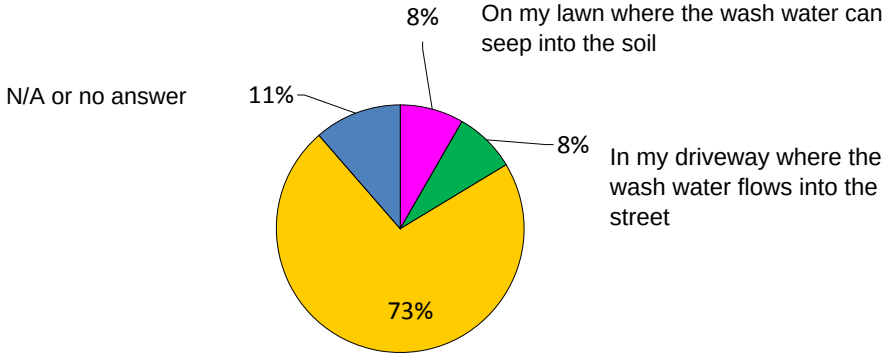
When walking my dog, I usually:



Most of the rainwater running off my roof is directed to flow:



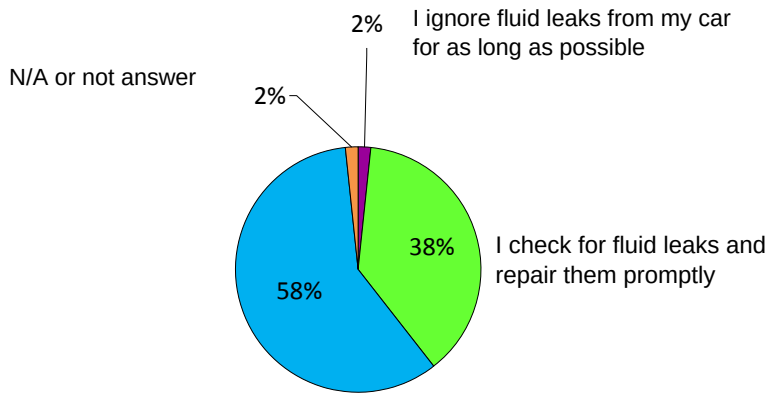
I typically wash my car:



Newton Dept. of Public Works

Results from Green Habits Survey: May - July 2011

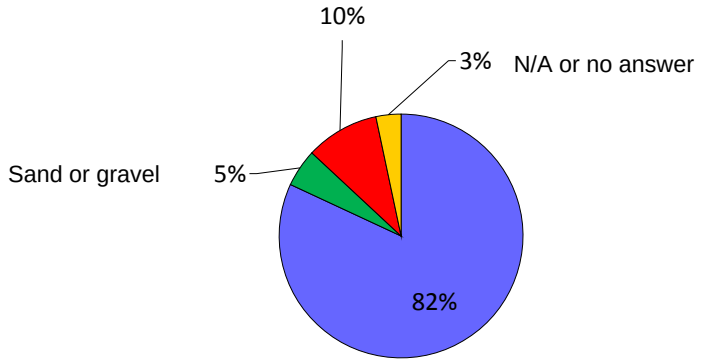
Car care:



I check for fluid leaks and repair them promptly and I follow my car's complete maintenance schedule

My driveway is made of:

Porous or permeable pavement



Asphalt or a similar NON-porous pavement

Please Scoop the Poop!

Here's why:

Pet waste can cause environmental and health problems if it isn't disposed of properly.

Stormwater, the runoff water after it rains, may wash pet waste off the ground into ponds, streams or coastal waters, either directly or via storm drains. Pet waste contains germs and nutrients that can be harmful to human health and to our waterways.

Please help keep our local waters clean:

- Pick up after your pet.
- Dispose of pet waste by flushing it down the toilet or putting it in the trash.
- Never throw pet waste into a storm drain or waterway.

Picking up pet waste is not only good for the environment, it's also courteous and it gives you insight into your pet's health.

For more information visit our website: www.ci.newton.ma.us/stormwater; or go to www.stormwatermatters.org

Municipal Staff Training for Phosphorus Reduction
October 12, 2011, 10 am-2pm

Utilities Service Building
60 Eliot Street, Newton Highlands, MA 02461

Photo Source: Stormwater Compliance LLC

Charles River Watershed Association will be joined by Stormwater Compliance, LLC to conduct a half-day, detailed training program on municipal phosphorus reduction for staff from Public Works and Parks & Recreation Departments, City of Newton, MA. Topics covered will include improved playing field management and maintenance techniques (low- or no-fertilizer approaches, vegetation management, good housekeeping), techniques to enhance operations and maintenance practices at DPW facilities, structural BMP maintenance, demonstration of street sweeping and introduction to a simple tracking tool to quantify phosphorus reduction.

The training is also open to staff from other municipalities in the lower Charles River watershed, but since space is limited and lunch will be provided, we are requesting that staff from other municipalities RSVP to Alexandra Ash at 781.788.0007 ext. 200 or aash@crwa.org by October 10th 2011. This training is funded by the EPA Source Reduction Assistance Grant Program. For questions regarding the training, please contact Pallavi Mande at 781.788.0007 ext. 232 or pmande@crwa.org and for more information on the Charles River Municipal Phosphorus Reduction Program visit http://www.crwa.org/projects/psourcecontrol.html

Municipal Staff Training on Phosphorus Reduction
October 12, 2011, 10 am-2 pm

Utilities Service Building
60 Elliot Street, Newton Highlands, MA 02461

Agenda

10:00 - 10:10 – Welcome and Introductions (Maria Rose, Newton DPW)

10:10 - 10:20 – Project Goals and Training Objectives (Kate Bowditch, CRWA)

10:20 - 10:30 – Phosphorus free fertilizer use and low impact development (LID) best management practices (BMP) maintenance case studies (Kate Bowditch, CRWA)

10:30 - 11:00 – Techniques to enhance operations and maintenance practices at DPW facilities, structural BMP maintenance and street sweeping (Gregg Novick, Stormwater Compliance LLC)

11:00 - 11:30 - Introduction to a tracking tool for quantifying phosphorus reduction (Julie Wood, CRWA)

11:30 - 12:10 - Discussion on current town practices and existing barriers to improving stormwater management practices (CRWA & City Staff)

12:10 - 12:40 – Lunch

12:40 - 1:10 – Vacuum Sweeping Demonstration (Gregg Novick, Stormwater Compliance LLC)

1:10 - 1:50 – Hands on training on DPW facility maintenance practices (Gregg Novick, Stormwater Compliance LLC)

1:50 - 2:00 –Training wrap up

Stormwater Utility Districts: Success Stories From New England

A New Approach to Financing Stormwater Management: Stormwater Utility Districts
Second in a Workshop Series

November 17, 2011
Culinary Arts Museum, Johnson & Wales Providence Campus
2:30 pm – 5:00 pm

Program

2:30-3:00 Light Refreshments and Registration

3:00-3:15 Introduction, Topher Hamblett, Save the Bay

3:15-4:45 Panelist Discussion

Moderated by James Riordan, AICP, LEED AP, Fuss & O'Neill, Inc.

- Thomas J. DiPietro Jr., Stormwater Superintendent South Burlington Stormwater Utility City of South Burlington, VT
- Maria P. Rose, CFM Environmental Engineer Department of Public Works City of Newton, MA
- Brutus Cantoreggi Director Department of Public Works Town of Franklin, MA

4:45-5:00 Discussion with Panelists

5:00 Wrap-up and Adjourn, Elizabeth Scott, Rhode Island Department of Environmental Management

What Is The Workshop About?

This workshop will feature a panel comprised of municipal officials with experience in establishing stormwater utilities in their communities. Panelists from nearby Massachusetts as well as South Burlington, VT will share their experiences including how they arrived at a stormwater utility, practical realities, and how the steady revenue stream provided by the utility impacts programmatic efforts and capital improvement projects. Each panelist will speak for approximately 20 minutes immediately followed by a 10 minute question and answer period to facilitate discussion.

Who Should Attend?

Public works directors, council members, managers, planners and other board/commission members

Advisory to communities participating in the Phase II Stormwater Education and Outreach Program: MS4s attendance at this workshop is **mandatory.**

How Do I Register?

Cost is **FREE** but registration is required. Please visit our website (www.uri.edu/ce/wq/NEMO/Workshops-Support/index.htm) for registration details. **Please register early.** Space is limited and registrations will be accepted in the order received.

What Are The Other Workshops In The Series?

October 25, 2011
Managing Stormwater in Tough Budget Times

January 26, 2012
Stormwater Utilities: Rhode Island Moves Forward

SAVE THE BAY NARRAGANSETT BAY · THE UNIVERSITY OF RHODE ISLAND · RI Bays, Rivers and Watersheds Coordination Team

From: **Maria Rose <mrose@newtonma.gov>**
To: **Jane Maddox <jmaddox25@yahoo.com>**
Subject: **(Fwd) (Fwd) Re: river monitoring**
Copies to: **Julie Wood <jwood@crwa.org>, "Kate Bowditch" <kbowditch@crwa.org>,**
Date sent: **Tue, 29 Nov 2011 16:01:49 -0500**

Jane,

I am not sure if anyone from the City has replied to your email, so I wanted to reply and let you know that I will look into this right away and will collect a sample early tomorrow morning. The following attachment shows a photo of the City's outfall pipe closest to Lyons Field. We identify it as NEW-58/58A (two 36" diameter pipes, that are usually partially under water). Based upon your description this where I think you are talking about. Is that correct? If not please provide more details (e.g., closest address, landmarks, etc.).

Unfortunately, there is a good chance that the discharge you described has stopped by now. If you reply back with a phone # or home address, I will drop off a sterile sample container and gloves for you to collect a sample - should the milky yellow-brown discharge re-appear.

Maria

------- Forwarded message follows -------
From: "Fred Russell" <frussell@newtonma.gov>
To: mrose@newtonma.gov
Date sent: Tue, 29 Nov 2011 14:49:13 -0500
Subject: (Fwd) Re: river monitoring
Send reply to: frussell@newtonma.gov
Priority: normal

Maria,

Can you check this out in your travels?

Fred

Frederick W. Russell, PE
Director of Utilities
City of Newton Dept. of Public Works
60 Elliot Street
Newton, MA 02461
(617) 796-1640

------- Forwarded message follows -------
Received: from spooler by newtonma.gov (Mercury/32 v4.62); 29 Nov 2011 12:21:14 -0500 X-Envelope-To: frussell@newtonma.gov From: "Dave Turocy" <dturocy@newtonma.gov> To: frussell@newtonma.gov <frussell@newtonma.gov>,
"Griffey Karen" <griffey@newtonma.gov>
Date: Tue, 29 Nov 2011 12:18:29 -0500
MIME-Version: 1.0
Subject: Re: river monitoring

Attachment C

2011 Stormwater Outfall Sampling and Inspection Locations

Attachment C

2011 IDDE Inspections and Outfall Sampling Plan

Outfall ID	Location	Type	Size (inches)	April	May	June	July	August	Sept	Oct.	Nov.	Dec
NEW-01	Saw Mill Brook Parkway (100' from end of the road)	RCP	60					Dry				
NEW-02	Wells Ave - south; across from #120 (approx. 30 ft from Rd)	Concrete	36					Dry				
NEW-03	Wells Ave - north (**Country Club Brook**) Across from #60	Culvert	48x72					Dry				
NEW-03A	#1 Wells Ave - Commercial Bldg. Parking lot; 150' Southwest of Rd)	Concrete	12					Dry				
NEW-03B	#1 Wells Ave - South Parking Lot 100' West of NEW-3A	Concrete	12					Dry				
NEW-03C	#1 Wells Ave - Behind Building across from loading area	HPDE	8					Dry				
NEW-03D	#1 Wells Ave - north parking lot; approx. 40' from end of lot	Concrete	12					Dry				
NEW-04	Off Nahanton St @ the access road to the park; near NEW-04	Concrete	12					Dry				
NEW-04**B**	Off Nahanton St. close to NEW-04	Concrete	12					Dry				
NEW-04A	Winchester St. 250' left of entrance to Nahanton Park	Concrete	15					Dry				
NEW-04C	Winchester St. Across access rd from NEW-4A	CMP	12					Dry				
NEW-05	Wallace Ave @ Rivers Edge	Concrete	15					Dry				
NEW-06	Charles River Terrace @ Rivers Edge	Concrete	15					Dry				
NEW-07	Bank St. @ Rivers Edge	Concrete	24					Dry				
NEW-08	Christina St.between #85 and Old RR Bridge	Concrete	12					Dry				
NEW-09	Parking Lot at #25 Christina St. Rear lot Upstream of building	PVC	10-1/2"					Dry				
NEW-09A	Parking Lot at #25 Christina St. Rear lot Upstream of building	PVC	10			Privately owned outfalls. Inspected and sampled in past years.						
NEW-09B	Parking Lot at #25 Christina St. Rear lot, Behind building	PVC	10									
NEW-09C	Parking Lot at #25 Christina St; 4' Downstream of NEW-09	RCP	12									
NEW-09D	Parking Lot at #25 Christina St, just downstream of bldg	PVC	10									
NEW-09E	320 Needham St. Parking Lot, Near Suite 150	Concrete	12									
NEW-09F	320 Needham St. Parking Lot; 125' Upstream of bridge	PVC	10									
NEW-10	Needham St. in wall @ Bridge West Bound	Concrete	12						Dry			
NEW-11	Needham St Culvert, South Meadow Brook	Culvert	60 x72						Dry			
NEW-12	Abbott St. @ end of road	PVC	10						Dry			
NEW-13	Williams Ct @ End of Rd	RCP	12						Dry			
NEW-13A	Williams Ct @ 50' Down from NEW-13	VCP	8						Dry			

Attachment C

2011 IDDE Inspections and Outfall Sampling Plan

Outfall ID	Location	Type	Size (inches)	April	May	June	July	August	Sept	Oct.	Nov.	Dec
NEW-13B	Saco St. Apt on right @ the end of the Complex and the edge of River	Concrete	15						Dry			
NEW-13C	TV Tower off Chestnut St.- 30 ft SE of last utility pole	CMP	8						Dry			
NEW-14	River Ave.@ End of Rd	Concrete	12						Dry			
NEW-15	Elliot St.Eastbound next to bridge	RCP	36						Dry			
NEW-15B	Elliot St. Westbound next to bridge	Concrete	15						Dry			
NEW-16	Ellis @ Rt 9E exist east side of small spillway. (Hemlock Gorge)	Concrete	12						Dry			
NEW-16B*	Ellis @ Rt 9E Exit West side of small spillway, 30' Upstream (Hemlock Gorge)	Concrete	12						Dry			
NEW-17	Quinobequin Rd. @ RT. 9 West on ramp 50' from on-ramp	Concrete	30						Dry			
NEW-17A*	Quinobequin Rd. @ RT. 9 West on ramp close to City line	Concrete	12						Dry			
NEW-18	Quinobequin Rd. 100' downstream of Rt. 9 on-ramp	Concrete	12						Dry			
NEW-18A*	Quinobequin Rd. across driveway of House # 744	Concrete	18						Dry			
NEW-19	Quinobequin Rd. across from house #696 and near utility pole #369-79 (Dresser	Concrete	72									
NEW-19A	Quinobequin Rd; 75' downstream of NEW-19	DI	4									
NEW-20	Quinobequin Rd.NW side of Dresser Brook Pond	Concrete	24									
NEW-21	Quinobequin Rd. @ Radcliff Rd	VCP	8									
NEW-22	Quinobequin Rd. 200' Downstream of Radcliff Rd	Concrete	12									
NEW-22A*	Across From #584 Quinobequin Rd. (350' east/southeast of Larkspur)	HPDE	24									
NEW-23	Quinobequin Rd. @ Larkspur (New outfall installed summer 2005)	Concrete	24									
NEW-24	Quinobequin @ York Rd.	Concrete	12									
NEW-24A	Quinobequin Rd (40 ft upstream of NEW-25)	Concrete	10									
NEW-25	Quinobequin @ Gould Rd	VCP	30									
NEW-25A	Quinobequin Rd Between House #486 & #494 (across the Road)	Concrete	12									
NEW-26*	Quinobequin Rd Between House #478 & # 470 (across the Rd)	Concrete	18									
NEW-27	Quinobequin @ Annawan	PVC	14									
NEW-27A	Quinobequin Rd. 150' Downstream of Annawan Rd	Concrete	12									
NEW-27B	Quin Rd. 75 ft downstream of Irwin Rd	Concrete	12									
NEW-28	Quinn Rd. between house #350 & #360 across the Rd	VCP	12									
NEW-28A*	Quinn Rd. across from house #328 [State owned]	DI and VCP	10"/10"									

Attachment C

2011 IDDE Inspections and Outfall Sampling Plan

Outfall ID	Location	Type	Size (inches)	April	May	June	July	August	Sept	Oct.	Nov.	Dec
NEW-29	Quinobequin & Carlton Rd	Concrete	18		Wet	Dry						
NEW-29A*	Quinobequin Rd across from #286 [State Owned]	Concrete	15		Wet	Dry						
NEW-30	Quinobequin Rd & Dhwinda	VCP	10		Wet	Dry						
NEW-30A*	Quinobequin Rd Across from #242 [State Owned]	Concrete	10		Wet	Dry						
NEW-30B*	Quinobequin Rd Across from #216 [State Owned]	Concrete	10		Wet	Dry						
NEW-30C*	Quinobequin Rd Across from #196 [State Owned]	Concrete	10		Wet	Dry						
NEW-30D*	Quinobequin Rd Across from #188 [State Owned]	Concrete	10		Wet	Dry						
NEW-30D*	Quinobequin Rd Across from # [State Owned]	Concrete	10		Wet	Dry						
NEW-31a*	Quinobequin Rd Across from #164 [State Owned]	Concrete	10	MassDOT owned outfalls								
NEW-31B*	Rt. 128 South Near natural gas pump station close to Rd [State Owned]	HDPE	10									
NEW-31C*	Rt. 128 South Near natural gas pump station at Rivers Edge [State Owned]	CMP	12									
NEW-32	Quinobequin Rd.100' downstream to access Rd for NEW-31B /31C	Concrete	36		Wet	Dry						
NEW-32A	Quinobequin Rd. 3 ft from NEW-32	Concrete	24		Inaccessible							
NEW-33	Wales St. between Washington St	VCP	24			Dry						
NEW-34	Washington St. near Executive Park Drive	VCP	12			Dry		Wet				
NEW-35	Washington St. #2300 Next to Elderly Housing	Concrete	15			Dry & Wet						
NEW-35A	Washington St. #2300 Next to Elderly Housing; 2 ft from NEW-35	Concrete	12			Dry & Wet						
NEW-36	2310 Washington St. Parking lot [Close to Post office]	Concrete	24			Dry		Wet				
NEW-36A	Washington St.- behind Post office	Concrete	12			Dry		Wet				
NEW-37	Washington St.- between liquor store and post office	Concrete	12			Dry		Wet				
NEW-38	Washington St.- Lower Falls under bridge West-bound side	VCP	12"			Dry		Wet				
NEW-39	Concord St.- across from cemetery	Concrete	10					Wet				
NEW-40	Concord St.@ Hagar Path, just over fence in wall	Concrete	10					Wet				
NEW-41	Concord St. just Upstream of old RR Bridge	Concrete	15					Wet				
NEW-42	Grayson Lane at end; Straight out from pump to River	Concrete	12					Wet				
NEW-43	Concord St.at the Charles River (next to Leo J. Martin Golf Course)	Concrete	15					Wet				
NEW-44	Clearwater Rd (bet #74 -#78 at the River)	Concrete	36					Wet				
NEW-44A*	Deforest Rd @ River near Rt. 128 South [30 ft from Rt. 128: State Owned]	Concrete	30					Wet				
NEW-44B*	Rt. 128N to Exit 25 (Rt. 90) between Ramp & 128 North; approx. 225 ft from River	Concrete	30					State-owned outfalls, no place to sample upgradient in line				
NEW-44C*	Rt. 128 North after exit 23-25; approx. 430 ft past old RR bridge	Concrete	12									

Attachment C

2011 IDDE Inspections and Outfall Sampling Plan

Outfall ID	Location	Type	Size (inches)	April	May	June	July	August	Sept	Oct.	Nov.	Dec
NEW-45*	Rt. 128; 300 Ft East of Deforest Rd			REMOVED by MassHighway								
NEW-46	Rt. 128N @ Rt. 90 exit 23 Recreation Rd; 450 ft past old RR bridge	Concrete	12					Wet				
NEW-46A	Rt. 128N to Exit 25 (Rt. 90); Approx. 125 downstream from NEW-44B	Concrete	12					Wet				
NEW-47	Grove St.-behind Riverside MBTA; approx. 360 ft downstream from Recreation Rd	Concrete	60					Wet				
NEW-48	Grove St.-behind Riverside MBTA; approx. 500 ft downstream from NEW-47	Concrete Culvert	36 x48					Wet				
NEW-49	Riverside Rd behind DCR building 75 ft from bridge	CMP	18						Wet			
NEW-49A	Central St between 387 & 399 @ River; approx. 30 ft U/S from Foot bridge	PVC	12						Wet			
NEW-49B	Riverside Rd near Antiques mall 100' upstream of RR Bridge	VCP	5						Wet			
NEW-50	Evergreen behind fences next to Rt. 90E	Concrete	12						Wet			
NEW-51	Oakland Ave. between #69 & Rt. 90 on-ramp	Concrete	18						Wet			
NEW-51A	So. Side of Bridge @ Commonwealth Ave. (20' upstream from bridge)	Concrete	12						Wet			
NEW-51B	North Side of Bridge @ Commonwealth Ave. (20' downstream of bridge)	CMP	12						Wet			
NEW-52A	Comm Ave @ Canoe/Kayak bldg (150 ft west of building) inaccessible	Concrete	18						Wet			
NEW-53	Marriott Parking Rear Lot (NE corner, approx. 65 ' from catch basin)	Concrete	18						Wet			
NEW-54	Malvern Terrace between #17 and #9 @ Rivers Edge	Concrete	12							Wet		
NEW-55	Between #264 Islington Rd and #1 Malvern Terrace @ Rivers edge	Concrete	12									Wet
NEW-56	Islington Rd East of #296 under wood dock at rivers edge	Concrete	12									Wet
NEW-57	Duffield Rd. #37 northeast corner, approx. 60' from house	Concrete	12								Wet	
NEW-58	Comm Ave Lyons Field, approx. 140' from minor league home plate	Concrete	36 (twin)								Wet	
NEW-58A	Comm Ave Lyons Field, approx. 100' from minor league home plate	Concrete	12								Wet	
NEW-59	Chaske Ave @ Kaposia, 50' north of pump house pipe	VCP	15								Wet	
NEW-60	West Pine St. at Auburndale Playground	PVC	14							Wet		
NEW-60 A	83 Staniford Ave Back lot of Condos behind Pine Trees	Concrete	12									
NEW-61	Staniford St behind Shed of #79 Back side of hill in woods	Concrete	12							Wet		
NEW-62	Staniford St 285' away from #19 back side of landfill behind fence	Concrete	60							Wet		
NEW-63	Riverview Ave. #209; Southeast corner in Parking lot	concrete	12							Wet		
NEW-64	Forest Grove Dewatering Pump	DI	15							Wet		
NEW-65	Rumford Ave.	CMP	60								Wet	
NEW-65A	Rumford Ave.	DI	18								Wet	
NEW-66	**DMH**: Decatur St. in Cemetery at Waltham line	Culvert	48 x60									Wet

Attachment C

2011 IDDE Inspections and Outfall Sampling Plan

Outfall ID	Location	Type	Size (inches)	April	May	June	July	August	Sept	Oct.	Nov.	Dec
NEW-67	**DMH** @ 200 North St	Concrete	14									Wet
NEW-68	Albemarle Rd. (Cheesecake Brk)	Fieldstone	4ft x 8ft								Wet	
NEW-69	Bemis St. End of the road; 75' out from the road	Concrete	12								Wet	
NEW-70	Wyoming Rd. @ Parkway 100 ft from the road	Concrete	12									Wet
NEW-71	Thaxter St. at Parkway											Wet
NEW-72	California St.& Colonial Ave (under walk way bridge)	VCP	15									Wet
NEW-73	Bridge St. (Upstream side of bridge)	CMP	24									Wet
NEW-74	California St. behind house #315	VCP	20									Wet
NEW-74A	California St. West of #440 Post (225' W of the bldg)	Concrete	15									Wet
NEW-74B	California St. behind #440, 20' west of path sitting area @ river	Concrete	12									Wet
NEW-75	Rustic St. at the end of the Rd	DI	12									Wet
NEW-76	California St - Derby Brook	Culvert	48 x 36									Wet
NEW-77	Jackson Rd in Left Field: LAUNDRY BROOK	Culvert	72 x 144									Wet
NEW-78	Boyd St. @ South Park St on South Park	Concrete	20									Wet
NEW-79	Centre St @ Carleton, 30' North of Hydrant	Concrete	12									Wet
NEW-80	Nonantum Rd. near Island for Maple Street at Rivers Edge	VCP	10									Wet
NEW-80A*	Nonantum Rd. behind #62 Maple St @ Rivers Edge	VCP	10		State-owned. Newton no longer monitoring this location							
NEW-81	Nonantum Rd Behind the end of Maple St - **Hyde Brook**	Culvert	60 x 66									Wet
NEW-81A*	Nonantum Rd. 20' Downstream from Hyde Brk	VCP	15		State-owned. Newton no longer monitoring these locations							
NEW-82*	Nonantum Rd. Approx. 170' downstream from NEW-81	Concrete	10									
NEW-83*	Nonantum Rd. behind #23/#25 St. James Ter.	Concrete	10									
NEW-84*	Nonantum Rd. behind #57/59 Charlesbank Rd	Concrete	10									
NEW-85C*	Nonantum Rd. behind #49 Charlesbank Rd [*Unable to locate*]	Concrete	10									
NEW-86	Nonantum Rd. 250' Upstream from Yacht club (2 lines)	RCP/ CMP	12									Wet

Notes:

Dry = dry weather inspection and sample if flowing **Wet** = wet weather sample to be collected and documented

† Outfall discharges to ground and is a significant distance from the Charles River.

* - State owned outfalls: 16B, 17A, 18A, 22A, 24A, 25A, 30A-30C, 31A -31C, 44A-44C, 46A, 80A, 81A, 82, 83, 84, 85