

MAY 4 2009

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April 30, 2009

Ms. Glenda Velez
US EPA – CIP
One Congress Street, Suite 1100
Boston, MA 02114

**Re: NPDES Stormwater General Permit
2008-2009 Annual Report
Town of Franklin, MA**

Dear Ms. Velez:

Enclosed for your records is the NPDES Stormwater General Permit 2008-2009 Annual Report for the Town of Franklin, MA. The Annual Report has simultaneously been filed with the Massachusetts DEP.

If you have any questions or require any additional information, please do not hesitate to call me at 508-520-4910 or our Consultant, Rich Niles with Comprehensive Environmental Inc. at (800)725-2550 ext. 307.

Sincerely,

Town of Franklin, Massachusetts

Robert Cantoreggi
Director of Public Works

cc: Massachusetts Department of Environmental Protection, Boston Office
Rich Niles, Comprehensive Environmental Inc.

Enclosure – NPDES Phase II Small MS4 General Permit 2008-2009 Annual Report

Municipality/Organization: Town of Franklin

EPA NPDES Permit Number: MAR041117

MaDEP Transmittal Number: W- 041238

**Annual Report Number
& Reporting Period: No. 6: May 1, 2008-April 30, 2009**

NPDES PII Small MS4 General Permit Annual Report

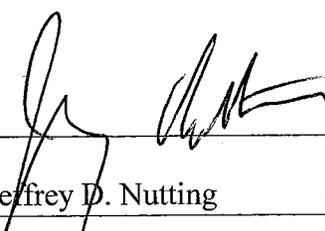
Part I. General Information

Contact Person: Robert Cantoreggi **Title:** DPW Director

Telephone #: (508) 520-4910 **Email:** rcantoreggi@franklin.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: Jeffrey D. Nutting

Title: Town Administrator

Date: 4/30/09

Part II. Self-Assessment

The Town of Franklin has completed the required self-assessment and has determined that our municipality is in compliance with permit conditions, except for the following provision:

1. Schedules have been modified for Illicit Discharge Detection and Elimination and Pollution Prevention and Housekeeping BMPs. Additionally, the BMPs to address the TMDLs completed for the Charles River are under evaluation once the draft Phase II Permit is reissued. Schedule modifications are shown in Section III.
2. As discussed in the Year 5 Annual Report, a Stormwater Utility Feasibility Study was completed and the town is currently developing additional information in support of the utility. Further work on the utility was temporarily postponed due to current budget concerns; however, the Town will continue with the utility project during the next permit cycle.

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	Planned Next Period
1A	Recycling Education for Home Owners	DPW/Solid Waste Coord.	Distribute 3 times/year	A mailer is sent to residents on a quarterly basis. The mailer discusses proper waste disposal & recycling practices. SuAsCo materials were incorporated with quarterly mailers and the Summer 2008 edition included an article about the storm drain marking project (see BMP 2A).	Continued next year.
Revised		Environmental Affairs Coordinator			
1B	Education Information on the Web Site	DPW/Solid Waste Coord.	Web Site Information developed and posted for year 2	The stormwater management/education web page was maintained and updated to be more user-friendly and links to SuAsCo web pages were added. Also, a hit counter was created in March 2009 and 47 hits were recorded by April 30, 2009. The DPW web page continued to advertise rain barrels to residents, discussing the improved environmental and stormwater benefits. Detailed recycling and waste disposal information is posted on the Town's recycling web page.	Continued new topics needed. Stormwater education needed. the stormwater...
Revised		Environmental Affairs Coordinator	Web page developed in year 4 Increased # hits each year		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
1C <i>Revised</i>	Education on Waste Disposal & Water Conservation	DPW/Solid Waste Coord. Environmental Affairs Coordinator	Materials Available in all Public Buildings	<ul style="list-style-type: none"> * Water conservation materials are displayed at the Administration Building. * Stormwater education materials were displayed at the Town Hall, High School, DPW Administrative Office and Senior Center * Recycling mailers sent quarterly to residents * Water conservation information is broadcast daily on local cable channel during months of May through October * Rain barrel facts are broadcast daily on local cable channel during months of March through May * Recycling facts are broadcast daily on local cable channel year round * Educational information available on specific websites for stormwater management and recycling * Rain barrels, a water conservation kit and compost bins were made available to residents at the Earth Day cleanup event on April 18, 2009 * Phone and e-mail address provided for citizen inquiries (dpw@franklin.ma.us) 	Continue to make materials available at public buildings and Town Events.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
ID	Water Resource Information and Protection Signs	DPW/Solid Waste Coord.	Five Signs Posted/Year beginning in year 3	Five water resource information and protection signs were placed at selected priority areas in May 2008.	Evaluate additional locations for signs and coordinate with efforts under BMP 1F.
Revised		Environmental Affairs Coordinator	Begin posting signs in year 4; post/maintain signs annually		
IE	Public Education with Charles River Watershed Association	DPW Director & Solid Waste Coord.	Number of Coordinated Programs	DPW attended committee meetings for the Charles River TMDL pilot project in October and September 2008 and March 2009 to provide input and obtain a better understanding of requirements for towns in the Charles River Watershed.	Continue to coordinate public education efforts and pursue grant opportunities with the CRWA, as appropriate.
Revised		Environmental Affairs Coordinator	# attendees & audience		

1a. Additions

IF	Establish a “Green Team” at Franklin High School and Participate in Stormwater/Water Quality Improvement Projects	Franklin High School students, DPW	Monthly meetings, agenda, memos of actions and results	The DPW continued to work with the Green Team and monthly meetings were held to discuss activities. The Green Team assisted DPW with the integration of additional recycling within the school.	Continue to hold monthly meetings and coordinate with DPW to incorporate stormwater tasks such as storm drain stenciling.
IG	Open Data Sharing for Stormwater Infrastructure	DPW	Ongoing correspondence with regulatory agencies for data sharing	DPW provided ongoing support to the U.S. EPA with respect to GIS data and information related to the storm drain system.	Continue to share GIS and infrastructure data with regulatory agencies.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
2A	Storm Drain Stenciling	DPW	Average Ten Catch Basins/Year	50 storm drains were marked by the DPW in the highest priority watersheds.	Continue to stencil storm drains in the highest priority watersheds in Town. Solicit and involve local Youth Organizations (e.g., Green Team, Eagle Scouts).
Revised		Environmental Affairs Coordinator			
2B	Outreach Efforts with Charles River Watershed Association	DPW Director, Solid Waste Coordinator & Conservation	Number of Coordinated Programs	The Town of Franklin is working with CRWA on their Building Blue sub watershed restoration project. The goal of the project is to develop a conceptual plan for water quality improvements that can be applied to a specific downtown sub watershed.	Coordinate public events during next permit term to increase public education and involvement.
Revised		Environmental Affairs Coordinator			
2C	Public Meetings to Encourage Volunteers	DPW Director, Solid Waste Coordinator & Conservation	Meetings held with the Public Starting Year 2	An Earth Day cleanup event was held on April 18, 2009 at Beaver Pond and approximately 350 people participated. The event focused on minimizing environmental impact, water conservation and stormwater.	Continue to solicit volunteers and advertise the Earth Day cleanup.
Revised		Environmental Affairs Coordinator	One meeting annually		

2a. Additions

2D	Community Assistance Program	DPW	Evaluation correspondence	Educational materials from SuAsCo, tailored to the Charles River, were incorporated into existing programs. The informative display was set up at various locations during the permit term: Town Hall, High School, DPW Administrative Office and Senior Center. The display was also available at the Earth Day Cleanup event on April 18, 2009.	Continue to develop program needs and incorporate materials into public education/outreach and participation/involvement BMPs, as appropriate.
2E	Establish a Stormwater Telephone Hotline	To be determined.	Record number of phone calls to hotline, copies of advertisements.	Stormwater issues are handled by DPW through calls to the stormwater hotline displayed on the stormwater website. Approximately 10 cases with written complaints were addressed.	Record number of phone calls to hotline. Continue to establish means in which residents may acquire additional stormwater information.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
3A	Storm Water Map Development	DPW Director, Town Engineer, Highway Dept. GIS Manager	Completed Map Showing Collection System Outfalls	442 outfalls were previously mapped and the storm drain system map was updated to reflect the results of field inspections (see BMP 3D) and ongoing efforts to incorporate the drainage network from existing subdivision plans. The drainage network is approximately 60% mapped and DPW is working to develop detailed (40-scale) maps for future drainage assessments and asset management. Water and sewer maps were also updated with age of pipe information.	Continue to update the drainage map and GIS data with ongoing mapping efforts (e.g., BMP 3D). Continue to develop detailed a detailed drainage data layer and begin to define drainage catchments based on this information.
Revised					
3B	Develop Non-Storm Water Discharge Ordinance	DPW Director	Ordinance Adopted by Town Draft bylaw at Town Meeting in year 5	The Town adopted a floor drain regulation on August 1, 2008 for prohibition of improper drains with provisions for fines and enforcement. The draft illicit discharge prohibition bylaw awaits presentation at an upcoming Town Council meeting.	Present illicit discharge bylaw to the public at an upcoming Town Council meeting for final review.
Revised					
3C	Develop Illicit Detection Implementation Plan	DPW Director	Plan Developed	Outfall inspections were completed in accordance with the Town's Illicit Discharge, Detection Implementation Plan (IDDE).	Continue with follow-up actions in accordance with the IDDE plan (see BMP 3D below).
Revised					
3D	Perform Dry Weather Outfall Assessments	DPW Director, consultant GIS Manager	Prioritized Areas and Number of Outfalls Assessed	178 outfalls were inspected and no obvious illicit discharges were observed. All 442 outfalls have been screened for illicit discharges and DPW began evaluating dry weather flows to prioritize follow-up actions (e.g., water quality sampling).	Evaluate dry weather flows with respect to the updated water and sewer maps. Conduct additional water quality assessments at outfalls with dry weather flow, as appropriate.
Revised					
3E	Develop Procedures for Removing Illicit Connections	DPW Director, Consultant	Procedures Developed and Number of Locations Identified	Procedures for the removal of illicit discharges were added to the IDDE plan (BMP 3C) and the legal mechanism is outlined in the IDDE ordinance (BMP 3B).	Document the progress of removing any identified illicit discharges.
Revised					

3a. Additions.

3F	Setup and Advetise a Hotline for Illicit Discharges	Environmental Affairs Coordinator	Log of Complaints and Action Taken.	Coordinated with BMP 2E, DPW handle stormwater issues through written records and calls to the hotline.	Keep log of complaints and action taken. Continue to establish means in which residents may acquire additional stormwater information.
3G	I/I and Sewer Rehab. Program	DPW Director, Consultant	Prioritization plan and record of corrections	I/I and sewer rehabilitation activities are ongoing and include: cleaning and lining of aged or damaged pipes, rebuilding manholes, disconnecting inflow sources, etc.	Continue I/I and sewer rehabilitation activities to repair infrastructure.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
4A	Ordinance Development for Waste Control	DPW Director, Town Engineer, Conservation, Planning, Consultant	Ordinance Adopted by Town	A stormwater bylaw was adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw in permit review and enforcement processes.
Revised			Draft bylaw at Town Meeting in year 4		
4B	Formalization of Site Plan Review Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant	Site Plan Review Procedures Adopted by Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaw.	Refer to BMP 4A.
Revised					
4C	Revised Ordinance to Address Storm Water Pollution	DPW Director, Town Engineer, Conservation, Planning, Consultant	Revised Ordinance Adopted by the Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaw.	Refer to BMP 4A.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
4D	Best Management Practice Manual for Developers	DPW Director, Town Engineer, Conservation, Planning,	Handbook Completed and Adopted by Town	The stormwater bylaw references the MA DEP Handbook for erosion control requirements that are used to review future projects.	Continue to use the handbook for inspections and developer education and implement requirements under the stormwater bylaw.
Revised		Consultant Environmental Affairs Coordinator	MA DEP Handbook on File		
4E	Formalization of Inspection Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant	Inspection Procedures Adopted by Town	A standardized checklist was prepared as part of the bylaw work discussed under BMP 4A. This checklist was used by DPW for construction site inspections at 12 projects throughout the permit term.	Refer to BMP 4A.
Revised		Construction Inspectors			

4a. Additions.

4F	Establish a Procedure for the Receipt of Information Submitted by the Public	DPW Director, Town Engineer, Conservation	Record number of phone calls to hotline, copies of articles advertising the hotline.	The DPW generally receives calls related to stormwater and handles any problems that arise. This information is coordinated with BMP 2E.	Coordinate with BMPs 2E & 3F, continue to receive and record information by the public regarding construction sites.
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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 6	Planned Activities – Next Permit Term
5A	Procedures for Long Term O&M	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town	A stormwater bylaw was adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw and incorporate operation and maintenance requirements and permit review.
Revised			Draft bylaw at Town Meeting in year 4		
5B	Review Procedures for Post Construction Impacts	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town	This BMP has been incorporated into the work discussed under BMP 5A, as part of the stormwater bylaw.	Refer to BMP 5A.
Revised					
5C	Best Management Handbook for Developers	DPW Director, Town Engineer, Conservation, Planning, Consultant	Handbook Completed and Adopted by Town	The stormwater bylaw references the MA DEP Handbook for Best Management Practices that is used to review projects.	Continue to use the handbook for review of BMP designs under the stormwater bylaw.
Revised		DPW Director, Town Engineer, Conservation, Planning, Consultant	MA DEP Handbook on File		

5a. Additions

5D	Establish a Procedure for the Receipt of Information Submitted by the Public	DPW and Conservation Planning	Record number of phone calls, and copies of letters and other correspondence.	The DPW generally receives calls related to stormwater and handles any problems that arise.	Coordinate record keeping program with the post-construction stormwater bylaw, track calls and records of enforcement.
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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	Planned Activities – Next Permit Term
6A	Standard Operating Procedures	DPW Director/Division Heads	Ten Procedures Developed	This BMP has been incorporated into the work discussed under BMP 6H. The work under BMP 6H was updated and the Town continued to evaluate specific standard operating procedures (SOPs).	Incorporate the results of BMP 6H and implement the recommendations for pollution prevention and housekeeping. Develop SOPs as appropriate.
Revised		Environmental Affairs Coord.	List of current O&M procedures		
6B	Employee Training	DPW Director/Division Heads	Four Employee Training Sessions	The DPW Director gave a presentation to the Town Council in January 2008 on the Town's snow and ice management practices with consideration for runoff and water quality protection.	Conduct training for the DPW, Highway, Water and Sewer Department employees and evaluate future training needs.
Revised			Annual training, attendance sheet and copy of program	Oil spill response training was conducted in July 2008 for DPW employees (see BMP 6D). An erosion and sediment control training session is scheduled for DPW employees to attend in May 2009.	
6C	Parking Lot and Road Sweeping	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	Continued routine street sweeping program. All streets are swept once a year and the downtown area is swept twice a year. The previous purchase of a new street sweeper helped to maintain the cleaning schedules.	Continue existing practices for sweeping and enhance cleaning operations based on the availability of equipment and staff time. Consider a tracking method for sediment volumes.
Revised					
6D	Spill Response and Prevention	DPW Director/Division Heads	Procedures and Inventory Completed	The Spill Prevention Control and Countermeasure (SPCC) Plan was updated in July 2008 based on changes at the facility and formal training for the DPW employees was conducted on July 24 & 29, 2008.	Follow the current SPCC Plan and continue with DPW employee training.
Revised					
6E	Catch Basin Cleaning	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	The Highway Department used the old Water Department vacuum truck to assist with catch basin cleaning.	Begin to evaluate appropriate cleaning frequencies and coordinate maintenance activities with BMP 6H.
Revised					

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6	Planned Activities – Next Permit Term
6F	Municipal Facilities and Operations Evaluation	DPW & Consultant	Record of inspections, recommendations and improvements. Pollution prevention inspection checklist.	The municipal facilities and operations evaluation was updated following the reconstruction of the new DPW facility. Recommendations for municipal facilities and operations were developed.	Begin to implement the recommendations of the updated evaluation.
6G	Low Impact Design for DPW Roadway & Drainage Projects	DPW Director, Town Engineer	Record of final or as-built plans and improvements.	One project to remove impervious surface was completed on Crossfield Road with the elimination of one sidewalk. Additionally, existing drainage structures were replaced with deep sump catch basins. Work began on three stormwater retrofit projects (see BMP 6H).	Additional projects and drainage improvements will be evaluated during the next permit round.
6H	BMP Evaluation and Identification of Needed Retrofits	DPW Director, Town Engineer, Consultant	Database of BMPs, owners, O&M requirements, inspection forms.	The Town focused on the retrofit designs at 3 BMP locations using funding obtained through a MA DEP Section 319 grant. At the site along Panther Way, the design was finalized and the project was publicly bid. Construction is anticipated during the spring/summer 2009. This project will result in the treatment of the first 0.6 inches of rainfall (i.e., first flush) over 28 acres of an existing condominium where stormwater previously discharged directly to a stream.	Finalize the design and construct the remaining 2 BMP retrofits under the s319 grant. Incorporate the results of the previous BMP evaluation into future evaluations for impaired waters (BMP 7A & 7B) and evaluate priority cleaning areas and retrofit opportunities. Incorporate maintenance needs into existing operations as funding allows.
6I	Stormwater BMP Maintenance & Drainage System Upgrades	DPW	Record of cleaning activities, # structures cleaned annually	A sediment forebay was constructed at the outfall from Southgate Road. Deep sump catch basins and sediment forebays were incorporated into an emergency culvert reconstruction project on Lincoln Street. A drain pipe was replaced, deep sump catch basins were added and the outfall for the drainage system was outfitted with a plunge pool and additional riprap on Colt Road.	Drainage improvements will be evaluated for Anchorage Road and Wachusett Street. Continue to make drainage improvements as funding is available. Incorporate the results of BMP 6H.

6J	Make Annual Household Hazardous Waste Collections Available to Residents	DPW & Board of Health	Ongoing resident participation, amount of materials collected	A collection event was held at the Town Hall on October 4, 2008. The Town has a reciprocal agreement with 8 neighboring communities that allows residents to participate in Household Hazardous Waste Collections on multiple dates.	Continue to hold an annual event and renew the reciprocal agreement with neighboring communities for additional event opportunities. Evaluate methods to track participation and the amount of materials collected.
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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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Next Permit Term
Revised					

7a. Additions

7A	Evaluate Data and TMDL for the Charles River and Develop a Plan to Improve TMDL Waters	DPW, Conservation, Environmental Affairs Coordinator, Consultant	Copy of Water Quality Improvement Plan	As discussed in the Year 5 Annual Report, the Town hired CEI to perform a review of the Charles River TMDLs and to develop a strategy to meet the TMDL considering existing actions under the Phase II stormwater management program and available resources. CEI updated this review and provided preliminary recommendations for a water quality strategy, pending the reissuance of the Phase II Permit.	Refer to BMP 7A.	Review the pending Phase II Permit and develop an implementation strategy to meet the TMDL that considers the goals of the TMDL, available resources, actions currently being undertaken by Franklin and actions by others under the MA DEP RIA Permit and/or the U.S. EPA CWA Permit.
7B	Implement Water Quality Improvement Plan for discharges to 303(d) waters.	DPW, Conservation, Environmental Affairs Coordinator	Photographs, logs, and BMP descriptions for completed efforts and water quality improvements			This will begin upon development of the implementation strategy and as resources become available.

7b. WLA Assessment

Two TMDLs have been finalized for the Charles River Basin. These include the Total Maximum Daily Load for Nutrients in the Lower Charles River Basin, Massachusetts CN 301.0, June 2007 and the Pathogen TMDL for the Charles River Watershed, CN 0156.0, January 2007. The Town of Franklin hired Comprehensive Environmental Inc. (CEI) to review the TMDLs and provide

recommendations on the additional steps needed to comply with the TMDLs. CEI has reviewed the TMDLs and has identified some concerns that will be considered in the development of the implementation strategy. Additionally, the developments of the MA DEP Regulated Impervious Area (RIA) General Stormwater Permit and the U.S. EPA Residual Designation Authority or Clean Water Act (CWA) Permit were evaluated with respect to the Town's existing program. CEI provided preliminary recommendations for the appropriate next steps by the Town that could be implemented consistent with the TMDL strategy; however, this information will be evaluated further to develop an appropriate strategy based on the pending draft Phase II Permit.

Part IV. Summary of Information Collected and Analyzed

- Number of outfalls screened for illicit discharges: 178 during the permit term, 442 total
- 350 residents participated in Earth Day event
- Several drainage system improvement projects to incorporate deep sump catch basins and design BMP retrofits.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Yes*
Annual program budget/expenditures	(\$)	

*Environmental Affairs Coordinator

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

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	(%)			
Estimated or actual number of outfalls	(#)	442		
System-Wide mapping complete	(%)	50%		
Mapping method(s)				
▪ Paper/Mylar	(%)	75%		
▪ CADD	(%)			
▪ GIS	(%)	50%		
Outfalls inspected/screened	(# or %)	442		
Illicit discharges identified	(#)	0		
Illicit connections removed	(#)	0		
	(est. gpd)			
% of population on sewer	(%)	80		
% of population on septic systems	(%)	20		

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

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

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	(#)	850
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	

Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

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

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	20:80 sand/salt mix
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)*	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	
*Salt is stored in two sheds to provide adequate cover of all materials.		